

Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008 (draft)



For manufacturers, importers,
downstream users and distributors of
substances and mixtures

LEGAL NOTICE

This document contains guidance on the labelling and packaging requirements under Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation).

The users are reminded that the text of the CLP Regulation is the only authentic legal reference and that the information in this document does not constitute legal advice. The European Chemicals Agency does not accept any liability with regard to the contents of this document.

Guidance on Labelling and Packaging under the CLP Regulation

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Preamble

This document is addressed to manufacturers, importers, downstream users and distributors of chemical substances and mixtures. It provides guidance on the labelling and packaging rules for substances and mixtures as set out in Titles III and IV of Regulation (EC) No 1272/2008 (CLP Regulation) which entered into force on 20 January 2009.

This document goes beyond the relevant sections on CLP hazard labelling as presented in the Introductory Guidance on the CLP Regulation and the Guidance on the Application of the CLP Criteria as it further specifies and explains the application and arrangement of the CLP label elements on the hazard label for substances and mixtures. Its content replaces Part 5 (Labelling) and Annex V (Selection of precautionary statements) of the Guidance on the Application of the CLP Criteria.

TABLE OF CONTENTS

1. INTRODUCTION	1
1.1 Who should read this document?.....	1
1.2 What is in this document?	1
2. GENERAL OVERVIEW	2
2.1 Legal background.....	2
2.2 Scope of labelling and packaging under the CLP Regulation	3
2.3 Timelines for classification, labelling, packaging and updating of CLP hazard labels	4
3. PRINCIPAL REQUIREMENTS OF LABELLING AND PACKAGING IN ACCORDANCE WITH THE CLP REGULATION.....	6
3.1 General labelling rules	6
3.2 Elements of the CLP hazard label	6
3.3 Location of information on the CLP hazard label.....	7
3.4 First experiences with the CLP labelling rules	7
3.5 CLP rules on packaging of substances and mixtures	9
4. RULES FOR THE APPLICATION OF THE CLP LABEL ELEMENTS.....	12
4.1 Contact details of the supplier	13
4.2 Product identifiers	12
4.3 Hazard pictograms	14
4.4 Signal words	16
4.5 Hazard statements.....	16
4.6 Precautionary statements.....	17
4.7 Codes for hazard and precautionary statements	18
4.8 Supplemental labelling information.....	19
5. GUIDANCE ON PARTICULAR ASPECTS OF CLP HAZARD LABELLING	26
5.1 Further aspects to consider for the CLP hazard label.....	26
5.2 Size of the label and of the label elements	26
5.3 Exemptions from the labelling and packaging requirements	28
5.3.1 Use of fold-out labels and tie-on tags.....	28
5.3.2 Omission of certain label elements.....	30
5.3.2.1 Exemptions where the contents do not exceed 125 ml	30
5.3.2.2 Exemptions for specific cases	31
5.4 Interaction between the CLP and the transport labelling rules	32
6. EXAMPLE LABELS	35
6.1 Single language label of a substance for supply & use	36
6.2 Multi-language label of a substance for supply & use containing non-obligatory supplemental information.....	37
6.3 Single language label of a mixture for supply & use containing both obligatory and non-obligatory supplemental information	39

6.4 Single language label of a substance for supply & use containing supplemental hazard statements	41
6.5 Multi-language label of a mixture for supply & use containing both obligatory and non-obligatory supplemental information	41
6.6 Single language label of a plant protection product for supply & use in form of a fold-out booklet	44
6.7 Packaging that is small or difficult to label.....	45
6.7.1 n-Hexane in a 25 ml bottle	46
6.7.2 Hazardous solid substance in a 25 ml bottle	47
6.8 Supply and transport label for a single package	48
6.9 Labelling of a chemical that is transported on land in combination packaging.....	51
6.10 Labelling of a chemical that is transported on land in single packaging.....	52
7. GUIDANCE ON THE SELECTION OF PRECAUTIONARY STATEMENTS FOR THE CLP HAZARD LABEL.....	54
7.1. Introduction.....	54
7.2. Approach to guidance.....	55
7.3. Selection Tables	58
7.3.1. General Precautionary Statements	58
7.3.2. Specific Precautionary Statements for Physical Hazards.....	59
7.3.2.1. Explosives.....	59
7.3.2.1. Explosives.....	60
7.3.2.1. Explosives.....	62
7.3.2.1. Explosives.....	63
7.3.2.2. Flammable Gases.....	68
7.3.2.3. Flammable Aerosols	69
7.3.2.3. Flammable Aerosols	69
7.3.2.4. Oxidising Gases.....	70
7.3.2.5. Gases under Pressure	71
7.3.2.5. Gases under Pressure	72
7.3.2.6. Flammable Liquids.....	73
7.3.2.7. Flammable Solids	76
7.3.2.8. Self-Reactive Substances and Mixtures	78
7.3.2.8. Self-Reactive Substances and Mixtures	80
7.3.2.8. Self-Reactive Substances and Mixtures	82
7.3.2.9. Pyrophoric Liquids	84
7.3.2.10. Pyrophoric Solids.....	86
7.3.2.11. Self-Heating Substances and Mixtures.....	88
7.3.2.12. Substances and mixtures which, in contact with water, emit flammable gases	89
7.3.2.12. Substances and mixtures which, in contact with water, emit flammable gases	90
7.3.2.13. Oxidising Liquids.....	91
7.3.2.13. Oxidising Liquids.....	93
7.3.2.14. Oxidising Solids	95
7.3.2.14. Oxidising Solids	97
7.3.2.15. Organic Peroxides	99
7.3.2.15. Organic Peroxides	101
7.3.2.15. Organic Peroxides	103
7.3.2.16. Corrosive to Metals.....	105
7.3.3. Specific Precautionary Statements for Health Hazards	106
7.3.3.1 Acute Toxicity - Oral	106
7.3.3.1 Acute Toxicity - Oral	108
7.3.3.1 Acute Toxicity - Dermal.....	109
7.3.3.1 Acute Toxicity - Dermal.....	111
7.3.3.1 Acute Toxicity - Dermal.....	113
7.3.3.1 Acute Toxicity - Inhalation.....	114
7.3.3.1 Acute Toxicity - Inhalation.....	116
7.3.3.1 Acute Toxicity - Inhalation.....	117
7.3.3.2 Skin Corrosion / Irritation	118
7.3.3.2 Skin Corrosion / Irritation	121
7.3.3.3 Eye Damage / Eye Irritation.....	122

7.3.3.3 Eye Damage / Eye Irritation.....	123
7.3.3.4 Sensitisation - Respiratory.....	124
7.3.3.4 Sensitisation - Skin.....	125
7.3.3.5 Germ Cell Mutagenicity.....	127
7.3.3.6 Carcinogenicity.....	129
7.3.3.7 Reproductive Toxicity.....	131
7.3.3.7 Reproductive Toxicity.....	133
7.3.3.8 Specific Target Organ Toxicity (Single Exposure).....	135
7.3.3.8 Specific Target Organ Toxicity (Single Exposure).....	137
7.3.3.8 Specific Target Organ Toxicity (Single Exposure).....	139
7.3.3.9 Specific Target Organ Toxicity (Repeated Exposure).....	140
7.3.3.9 Specific Target Organ Toxicity (Repeated Exposure).....	142
7.3.3.10 Aspiration Hazard.....	143
7.3.4. Specific Precautionary Statements for Environmental Hazards.....	144
7.3.4.1. Hazardous to the Aquatic Environment – Acute Hazard.....	144
7.3.4.1. Hazardous to the Aquatic Environment – Chronic Hazard.....	145
7.3.4.1. Hazardous to the Aquatic Environment – Chronic Hazard.....	146
7.3.5 Specific Precautionary Statements for Additional Hazards	
7.3.5.1. Hazardous to the ozone layer.....	147
7.4. Examples for the selection of precautionary statements.....	148
1. Example of a substance (imaginary) assigned a physical and various health hazard classifications.....	148
2. Example of a substance (sodium peroxide Na ₂ O ₂ , EC No 215-209-4) assigned a severe physical and health hazard classification).....	150
3. Example of a substance (dimethylzinc, EC No 208-884-1) assigned physical, health and environmental classifications.....	150
4. Example of a mixture (imaginary) for consumer use.....	154
Attachment: Glossary.....	151

1 1. INTRODUCTION

2 1.1 Who should read this document?

3 This document is relevant for suppliers of chemical substances and mixtures, namely for

- 4 • manufacturers and importers of substances,
- 5 • importers of mixtures,
- 6 • downstream users of substances and mixtures (including formulators),
- 7 • distributors of substances and mixtures, including retailers.

8 These suppliers must label and package their substances and mixtures in accordance with the
9 provisions of Regulation (EC) No 1272/2008 (CLP Regulation or CLP) before they are placed on
10 the EU market.

11 1.2 What is in this document?

12 This document will provide guidance on the labelling and packaging requirements set out in the
13 CLP Regulation. It builds on the overview provided in sections 14 to 16 of the Introductory
14 Guidance on the CLP Regulation as already published on the website of the European
15 Chemicals Agency, see http://guidance.echa.europa.eu/docs/guidance_document/clp_en.htm.

16 In particular, this guidance will clarify:

- 17 • what aspects to consider when estimating **the label size** needed,
- 18 • what types of **supplemental information** are possible, and where to place this
19 information on the label, see **section 4.8** below;
- 20 • the conditions for **small packaging exemptions**;
- 21 • the interaction between **CLP and the transport labelling rules**;
- 22 • how to select the most appropriate set of **precautionary statements** for the label.

23 Examples illustrating these topics are provided in **sections 6 and 7** of this guidance document.

1 **2. GENERAL OVERVIEW**

2 **2.1 Legal background**

3 Regulation (EC) No 1272/2008 (CLP Regulation or CLP) is the new EU legislation on
4 classification, labelling and packaging of substances and mixtures. It entered into force on 20
5 January 2009 in the European Union¹ and it is directly applicable to companies which
6 manufacture, import, use or distribute chemical substances and mixtures. The new Regulation
7 will replace the provisions of the Dangerous Substances Directive 67/548/EEC (DSD) and the
8 Dangerous Preparations Directive 1999/45/EC (DPD) in a stepwise approach; the latter
9 directives will finally be repealed on 1 June 2015.

10 CLP introduces several new aspects to the labelling and packaging of substances and mixtures.
11 This guidance will explain the new labelling and packaging rules of CLP and the challenges they
12 bring, and will illustrate with some examples how labels could be laid out.

13 In general, the CLP label should display the label elements which are taken over from the
14 United Nations Globally Harmonized System of classification and labelling of chemicals (UN
15 GHS), i.e. the new pictograms, signal word, hazard and precautionary statements, in order to
16 reflect the assigned classifications of a substance or mixture. At the same time CLP retains
17 some of the existing labelling concepts of DSD and DPD, such as the small packaging
18 exemptions. In order to retain certain hazard information from DSD which is not (yet) covered by
19 the UN GHS and further label elements which are required by other Community Legislation,
20 CLP introduces the concept of “supplemental information” for the label, which is in line with the
21 provisions of the UN GHS (see point 1.4.6.3 of the UN GHS).

22 Title III of CLP introduces *‘Hazard Communication in the form of labelling’*. This wording is to
23 indicate that CLP covers only one aspect of hazard communication, namely the hazard label.
24 Another key element of hazard communication is the Safety Data Sheet whose general format
25 and content are set out in Article 31 and in Annex II to Regulation (EC) No 1907/2006 (REACH).
26 It should be noted that Annex II to REACH has recently been adapted through Commission
27 Regulation (EU) No 453/2010, in order to incorporate the Safety Data Sheet rules set out in the
28 UN GHS, see

29 [http://ec.europa.eu/enterprise/sectors/chemicals/documents/reach/review-](http://ec.europa.eu/enterprise/sectors/chemicals/documents/reach/review-annexes/index_en.htm#h2-annex-ii)
30 [annexes/index_en.htm#h2-annex-ii](http://ec.europa.eu/enterprise/sectors/chemicals/documents/reach/review-annexes/index_en.htm#h2-annex-ii)

31 CLP Article 57(2) sets out in which situations the CLP-related information has to be provided in
32 Safety Data Sheets for substances and mixtures.

33 The Agency is currently preparing a separate guidance document on the compilation of Safety
34 Data Sheets.

¹ Once the EFTA States that are signatories to the EEA Agreement (these are currently Iceland, Liechtenstein and Norway) have incorporated the CLP Regulation into their national legislation, references in this document to ‘the EU’ and ‘the Member States’ should be read to include the corresponding countries.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 2.2 Scope of labelling and packaging under the CLP Regulation

2 In general, substances and mixtures that are placed on the market are supplied in packaging
3 with the necessary labelling information. A substance or mixture contained in packaging should
4 be labelled according to the CLP rules where

- 5 • the substance or mixture is classified as hazardous;
- 6 • a mixture, even if not classified as hazardous, is addressed in Part 2 of Annex II to CLP.
7 In this case the supplemental label elements as set out in that part shall be applied.

8 In addition, an explosive article which meets the criteria as described in Part 2.1 of Annex I to
9 CLP will need to be labelled according to the CLP rules. Other articles do not need to be
10 labelled under the CLP Regulation; for a clarification what is considered to be an article see also
11 the Guidance on requirements on substances in articles on the Agency's website
12 (http://guidance.echa.europa.eu/guidance_en.htm).

13 Substances and mixtures within the scope of Regulation (EC) No 1107/2009 (Plant Protection
14 Products Regulation) or Directive 98/8/EC (Biocidal Products Directive) have to be labelled in
15 accordance with the CLP rules as any other substance or mixture within the scope of CLP. Any
16 additional labelling information required by these pieces of legislation will be supplemental
17 information for the purposes of CLP, see [section 4.8](#) of this document. However, there are
18 separate provisions for updating labels for such substances and mixtures in these acts, and
19 their suppliers should, pursuant to CLP Article 30(3), apply these provisions instead of the CLP
20 rules.

21 Certain substances and mixtures may also be supplied to the general public without packaging
22 in which case a copy of the label elements is required to accompany the substance or mixture,
23 for example on an invoice, see CLP Article 29(3) and Part 5 of Annex II to CLP. Currently this
24 only applies to ready mixed cement and concrete in the wet state, see also [section 5.3.2.2](#).
25 below.

26 Finally, CLP Article 23 and section 1.3 of Annex I to CLP define derogations from the CLP
27 labelling requirements for special cases and the conditions where these derogations apply.
28 They define either the application of selected labelling elements or even allow the omission of
29 CLP labelling. The special cases include

- 30 • Transportable gas cylinders, see the specifications set out in point 1.3.1 of Annex I to
31 CLP;
- 32 • Gas containers intended for propane, butane or liquefied petroleum gas, see the
33 specifications set out in point 1.3.2 of Annex I to CLP;
- 34 • Aerosols and containers fitted with a sealed spray attachment and containing
35 substances and mixtures classified as presenting an aspiration hazard, see the
36 specifications set out in point 1.3.3 of Annex I to CLP;
- 37 • Metals in massive form, alloys, mixtures containing polymers, mixtures containing
38 elastomers, see the specifications set out in point 1.3.4 of Annex I to CLP;
- 39 • Explosives, as referred to in section 2.1 of Annex I to CLP which are placed on the
40 market with a view to obtaining an explosive or pyrotechnic effect, see the specifications
41 set out in point 1.3.5 of Annex I to CLP.

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

1 In relation to the afore-mentioned special cases, further guidance will not be provided in this
2 document as the explanations given in section 1.3 of Annex I to CLP are considered sufficient.

3 **2.3 Timelines for classification, labelling, packaging and updating of CLP hazard** 4 **labels**

5 The CLP Regulation sets out a phased transitional period when the rules of both CLP and the
6 previous legislation on classification, labelling and packaging, i.e. the DSD and DPD directives,
7 will be applicable in parallel. In relation to classification, labelling and packaging, CLP sets out
8 different timelines for substances and mixtures. This is to give companies time to migrate from
9 the DSD/DPD system to the CLP rules. However, they have been allowed to apply CLP in full
10 on a voluntary basis since its entry into force, see CLP Article 61.

11 For substances, the deadline for classification, labelling and packaging according to the CLP
12 rules was 1 December 2010. Nevertheless, they still need to be classified according to DSD as
13 well until 1 June 2015. In cases where a substance has already been classified, labelled and
14 packaged according to CLP before 1 December 2010, only the CLP label shall appear, and not
15 the label according to DSD or any combination of DSD and CLP label elements. Where a
16 substance is already classified, labelled and packaged according to the DSD rules and placed
17 on the market before 1 December 2010, i.e. it is already in the supply chain by that date, the
18 manufacturer, importer or distributor may postpone its re-labelling and re-packaging (but not the
19 re-classification!) according to the CLP rules until 1 December 2012. This means that the
20 substance can be sold further in the supply chain with the DSD label until 1 December 2012.
21 However, in cases where a substance is re-filled into another packaging on its way through the
22 supply chain and the respective supplier (re-filler) changes the packaging such that other
23 labelling elements become necessary, he should adapt the label to the CLP requirements on
24 this occasion and not use the DSD labelling any longer.

25 For mixtures, the deadline for classification, labelling and packaging according to the CLP rules
26 is 1 June 2015. Until then, they need to be classified, labelled and packaged according to DPD.
27 In cases where a mixture has already been classified, labelled and packaged according to CLP
28 before 1 June 2015, only the CLP label shall appear, and not the label according to DPD.
29 Where a mixture is already classified, labelled and packaged according to the DPD rules and
30 placed on the market before 1 June 2015, i.e. it is already in the supply chain by that date, the
31 manufacturer, importer, downstream user or distributor may postpone its re-labelling and re-
32 packaging (but not the re-classification!) according to the CLP rules until 1 June 2017. This
33 means that the mixture can be sold further in the supply chain with the DPD label until 1 June
34 2017. However, in cases where a mixture is re-filled into another packaging on its way through
35 the supply chain and the respective supplier (re-filler) changes the packaging such that other
36 labelling elements become necessary, he should adapt the label to the CLP requirements on
37 this occasion and not use the DPD labelling any longer.

38 An overview of the relevant timelines for classification and labelling is provided in the Figure
39 below:

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

1

	Legislation	From 20 January 2009	From 1 December 2010	From 1 June 2015
Substances	Directive 67/548/EEC (DSD)	Classification required		Repealed
		Labelling required (if not CLP labelled)	No labelling unless the derogation applies	
	Regulation EC No 1272/2008 (CLP)	Classification possible		Classification required
		Labelling possible	Labelling required unless the 2012 derogation applies	
Mixtures	1999/45/EC (DPD)	Classification required		Repealed
		Labelling required (if not CLP labelled)		
	Regulation EC No 1272/2008 (CLP)	Classification possible		Classification required
		Labelling possible	Labelling required unless the 2017 derogation applies	

2 **Figure 1:** Timelines for classification and labelling in accordance with CLP and DSD/DPD

3 CLP Article 30 requires a supplier to update any information on the label without undue delay,
4 i.e. as soon as reasonably practicable, following any changes to the classification and labelling
5 where the revised classification is more severe or where new supplemental label elements are
6 required under CLP Article 25(1) and (2). However, there are separate provisions for updating
7 labels in Directive 98/8/EC (Biocidal Products Directive) and Regulation (EC) No 1107/2009²
8 (Plant Protection Products Regulation), and suppliers of substances or mixtures within the
9 scope of these acts should apply these provisions instead.

10 Where other changes to the label are involved, e.g. where the revised classification will be less
11 severe or the contact details of the supplier have changed, the supplier has 18 months to
12 update the label. This would also include the update of labelling information for certain mixtures
13 not classified as hazardous but where special rules for supplemental labelling in accordance
14 with Part 2 of Annex II to CLP apply.

² Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market repeals Council Directives 79/117/EEC and 91/414/EEC with effect from 14 June 2011. However Article 80 of Regulation (EC) No 1107/2009 specifies that directive 91/414/EEC shall continue to apply with respect to active substances included in Annex I to that Directive for certain transitional periods.

3. PRINCIPAL REQUIREMENTS OF LABELLING AND PACKAGING IN ACCORDANCE WITH THE CLP REGULATION

3.1 General labelling rules

General and specific rules regarding the application and content of a CLP label are set out in CLP Title III, Chapters 1 and 2, respectively.

As a general rule, CLP requires labels to be firmly affixed to one or more surfaces of the packaging immediately containing the substance or mixture and that they shall be readable horizontally when the package is set down normally, see CLP Article 31(1). The label elements themselves, in particular the hazard pictograms, should stand out clearly from the background, see CLP Article 31(2) and (3). Furthermore, all label elements should be of such size and spacing as to be easily read. A physical label is not required when the label elements are shown clearly on the packaging itself, see CLP Article 31(5).

3.2 Elements of the CLP hazard label

According to CLP Article 17, a substance or mixture classified as hazardous shall bear a label including the following elements:

- Name, address and telephone number of the supplier(s);
- The nominal quantity of the substance or mixture in the package where this is being made available to the general public, unless this quantity is specified elsewhere on the package;
- Product identifiers;
- Hazard pictograms, where applicable;
- The relevant signal word, where applicable;
- Hazard statements, where applicable;
- Appropriate precautionary statements where applicable;
- A section for supplemental information, where applicable.

It should be noted that for particular label elements precedence rules apply. These rules are further explained in the sections below.

CLP states that the label shall be written in the official language or languages of the Member States(s) where the substance or mixture is placed on the market, unless the Member State(s) concerned provide otherwise. Suppliers may accomplish this either by producing a single multi-language label covering all the official languages in countries where the substance or mixture is supplied, or by producing separate labels for each country, each with the appropriate language or languages. Suppliers may use more languages on their labels if they wish, provided that the same details appear in all languages. However, this should not impact the legibility of the obligatory labelling information nor can it trigger exemptions from the labelling requirements as set out under CLP Article 29, see [section 5.3](#) of this document.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

3.3 Location of information on the CLP hazard label

CLP Article 32 provides some limited rules that define the location of information on the label. However, further details as to how label elements are arranged are left to the discretion of the person(s) responsible for compiling the label, as outlined in the table below:

5

6 **Table 1:** CLP labelling requirements versus discretion of the supplier

CLP requirement (Article 32)	Example of decision left to the discretion of the supplier
The hazard pictograms, signal word, hazard statements and precautionary statements should be kept together on the label.	The supplier is free to choose the arrangement of the pictograms.
Hazard statements should be grouped together on the label while the order of the hazard statements can be chosen freely.	The supplier may choose whether these groups are to be presented on the left, on the right or elsewhere on the label.
Precautionary statements should be grouped together on the label while the order of the precautionary statements can be chosen freely.	The supplier may choose whether these groups are to be presented on the left, on the right or elsewhere on the label.
In case more than one language is used on the label, the hazard and precautionary statements of the same language should be grouped together on the label.	Where the supplier needs to use alternative means to meet the requirements of CLP Article 31 in relation to the language(s) required in a particular Member State, he may choose whether to accomplish this using fold-out labels, tie-on tags or on an outer packaging, in accordance with section 1.5.1 of Annex I
Any supplemental information as referred to in CLP Article 25 should be included in the section for supplemental labelling and placed alongside the label elements referred to in CLP Article 17(1)(a)–(g).	The supplier may choose how to visibly separate this section from the section containing the label elements referred to in CLP Article 17(1)(a)–(g). He may also decide to place this information in more than one location on the label.

3.4 First experiences with the CLP labelling rules



First experiences with the application of the CLP labelling rules suggest that the information required on the CLP label will increase compared to the DSD/DPD regime, requiring further space on the label. One reason for this is that additional pictograms are required under CLP, compared to DSD/DPD. Similarly, the new signal word will consume additional space. Where mixtures have to be classified on the basis of the calculation methods, lower generic concentration limits trigger additional classification and labelling compared to DSD/DPD, which means that further hazard and precautionary statements must be put on the label. Moreover, combined hazard statements that would condense the message and save valuable label space are normally not foreseen under CLP, see [section 4.5](#) of this document.

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

1 In relation to precautionary statements, CLP provides for far more precautionary statements
2 compared to the number of safety phrases that are available under DSD/DPD. On the other
3 hand, less prescriptive selection rules under CLP compared to DSD make it more difficult to
4 arrive at the target number of six precautionary statements on the label as intended by CLP, see
5 also [section 4.6](#) and [section 7](#) of this document.

6 For illustration purposes Figure 2 below shows a comparison of important label elements³ under
7 CLP and DSD for an example substance (glutaraldehyde):

<u>Hazard pictograms under CLP</u>	<u>Danger symbols under DSD</u>
	
<u>Signal word:</u>	<u>Indications of danger:</u>
Danger	Toxic Dangerous for the environment
<u>6 Hazard statements under CLP</u>	<u>4 Risk phrases under DSD</u>
Toxic if swallowed or if inhaled ⁴ Causes severe skin burns and eye damage May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled Very toxic to aquatic life	Toxic by inhalation and if swallowed Causes burns May cause sensitisation by inhalation and by skin contact Very toxic to aquatic organisms
Selection from ca. 30 precautionary statements	S: (1/2-)26-36/37/39-45-61

30 **Figure 2:** Comparison of important label elements under CLP and DSD for an example substance
31 (glutaraldehyde)

32 The example above suggests that in future, optimum use of the available space on the label
33 may be a greater challenge than is the case under the DSD/DPD labelling regime. Under CLP,
34 alternative ways of labelling and the use of the labelling derogations as offered by the CLP

³ Figure 2 is not intended to be a label that complies with the provisions of the CLP Regulation, but is meant to present a rough overview of applicable label elements only.

⁴ This combined hazard statement is one of the few that are foreseen under the 2nd ATP to CLP.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 Regulation will have to be accompanied by further layout efforts in order to save labelling space
2 while remaining compliant with the requirements of CLP.

3 3.5 CLP rules on packaging of substances and mixtures

4 CLP Article 35 includes the packaging requirements carried forward from the DSD/DPD. In
5 addition to the labelling rules, these packaging provisions need to be considered carefully when
6 a packaging contains a hazardous substance or mixture. These provisions are to ensure that

- 7 • the packaging is designed, constructed and fastened so that the contents cannot
8 escape;
- 9 • the materials of the packaging and fastening are not damaged by the contents and are
10 not liable to form hazardous compounds with the contents;
- 11 • the packaging does not attract or arouse the curiosity of children or mislead the
12 consumer.

13 It should be noted that packaging meeting the transport rules is deemed to comply with the
14 requirements set out in the bullet points above.

15 For substances and mixtures to be supplied to the general public, CLP sets out rules for

- 16 • the use of child-resistant fastening (CRF), see section 3.1 of Annex II, and for
- 17 • the use of tactile warnings of danger (TWD), see section 3.2 of Annex II.

18 These provisions are triggered by either a specific hazard class/category or by the concentration
19 of specific substances contained in other substances or in mixtures, see Tables 2 and 3 on the
20 next pages. For both CRF (also sometimes referred to as child-resistant closure – CRC) and
21 TWD, CLP requires conformity with certain standards, relating to reclosable and non-reclosable
22 packaging and to tactile warning devices. These standards are explicitly mentioned in Part 3 of
23 Annex II to CLP. Conformity with these standards may only be certified by laboratories which
24 conform to EN ISO/IEC 17025 as amended.

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

Table 2: The hazard classifications that trigger the CLP provisions for child-resistant fastenings and/or tactile warnings

Hazard Class (Category)	Child-resistant Fastenings	Tactile Warnings*
Acute toxicity (category 1 to 3)	✓	✓
Acute toxicity (category 4)		✓
STOT-SE (category 1)	✓	✓
STOT-SE (category 2)		✓
STOT-RE (category 1)	✓	✓
STOT-RE (category 2)		✓
Skin corrosion (category 1A, 1B and 1C)	✓	✓
Respiratory sensitisation (category 1)		✓
Aspiration hazard (category 1) <i>Note that a CRF is not required if the substance or mixture is supplied in an aerosol dispenser or in a container with sealed spray attachment</i>	✓	✓
Germ cell mutagenicity (category 2)		✓
Carcinogenicity (category 2)		✓
Reproductive toxicity (category 2)		✓
Flammable gases (category 1 and 2)		✓
Flammable liquids (category 1 and 2)		✓
Flammable solids (category 1 and 2)		✓

* Note that the TWD provisions do not apply to aerosols which are only classified and labelled as extremely flammable or flammable aerosols.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

Table 3: Substances that trigger the CLP provisions for child-resistant fastenings and/or tactile warnings when they are contained in other substances or in mixtures at or above the denoted concentration

Identification of the substance	Concentration limit	Child-resistant Fastenings	Tactile Warnings
Methanol*	≥ 3%	✓	
Dichloromethane	≥ 1%	✓	

* It should be noted that above a certain concentration, methanol mixtures also need a tactile warning because the mixture would then have to be classified as flammable liquid, cat. 2.

1 4. RULES FOR THE APPLICATION OF THE CLP LABEL 2 ELEMENTS

3 4.1 Contact details of the supplier

4 According to CLP Article 17, the contact details of one or several suppliers should be
5 included on the label. In principle, there can be more than one supplier of the same
6 substance or mixture in the supply chain, e.g. in case a mixture has been supplied by
7 the formulator to a distributor who would supply it to third parties as well. However,
8 CLP Article 17 does not specify whether the contact details of both suppliers are
9 needed in such cases nor does it specify whether the contact details of one particular
10 supplier have precedence.

11 Pursuant to CLP Article 4(4), a supplier shall ensure that a hazardous substance or
12 mixture is labelled and packaged in accordance with Titles III and IV of the CLP
13 Regulation before he places it on the market. On the way through the supply chain
14 the labelling for the same substance or mixture may vary upon the volume of the
15 packaging or as a consequence of further layers of packaging, see also [sections 5.3](#)
16 [and 5.4](#) of this document. Where a supplier changes the packaging such that the
17 label elements set out in CLP Article 17 have to be displayed differently than on the
18 label/packaging supplied to him, he should add his own name and contact
19 information or replace the contact information of his supplier with his own contact
20 details because he has taken the responsibility for re-packing and re-labelling the
21 substance or mixture. Where he does not change the packaging such that changes
22 to the labelling become necessary, he does not need to add his contact details to the
23 label nor replace the contact information of his supplier with his own contact details,
24 but is allowed to do so. In case he exchanges the languages(s) displayed on a label,
25 he should add his contact details to the contact details of the relevant supplier who
26 issued the original label, as he is responsible for the correct translation of the label
27 content.

28 4.2 Product identifiers

29 As a general rule, the same product identifiers as mentioned in the Safety Data
30 Sheets should be used on the hazard label for a substance or mixture.

31 According to CLP Article 18(2), product identifiers for substances should include at
32 least:

- 33 • a name and an identification number as given in Part 3 of Annex VI to CLP.
34 The name is the International Chemical Identification that is stated in column
35 2 of the tables in Part 3 of Annex VI to CLP. The identification number is
36 typically either the Index number, the EC number or the CAS number. It is
37 recommended to use the number that warrants an unambiguous identification
38 of the substance; in some cases it may be warranted to use two numbers,
39 e.g. the CAS and the Index number. When a substance name from Annex VI
40 is used, this name should be translated into the language(s) required for the
41 label in the Member State where the substance or mixture is placed on the
42 market; or

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

- 1 • if the substance is not included in Part 3 of Annex VI to CLP, a name and an
2 identification number as they appear in the Classification and Labelling
3 Inventory. The name is typically either the IUPAC name⁵, the EC name or the
4 CAS name. The identification number should either be the Inventory
5 reference number, the EC or the CAS number. It is recommended to use the
6 number or even numbers that warrant(s) an unambiguous identification of the
7 substance. It should be noted that in practice it is unlikely to be convenient to
8 choose the Inventory reference number as this may not have been available
9 by the time when the relevant Safety Data Sheet was prepared. Instead,
10 choice of an identifier such as (where applicable) EC number or CAS number
11 may be advisable, in order to minimise the need for revision of the Safety
12 Data Sheet; or
- 13 • if the substance is neither included in Part 3 of Annex VI to CLP nor in the
14 Classification and Labelling Inventory, the CAS number and the IUPAC name,
15 or the CAS number and another international chemical name, e.g. the name
16 in INCI nomenclature⁶, where applicable. It may be assumed that this
17 concerns substances that are for the first time manufactured in the EU or
18 imported, but which have not been notified yet.; or
- 19 • if no CAS number is available and none of the above apply, the IUPAC name
20 or another international chemical name, e.g. the name in INCI nomenclature
21 where applicable.

22 According to CLP Article 18(3), product identifiers for mixtures should include both:

- 23 • the trade name or the designation of the mixture; and
- 24 • the identity of all substances in the mixture that contribute to the classification
25 of the mixture as regards acute toxicity, skin corrosion or serious eye
26 damage, germ cell mutagenicity, carcinogenicity, reproductive toxicity,
27 respiratory or skin sensitisation, specific target organ toxicity (STOT), or
28 aspiration hazard.

29 As to the second bullet relating to mixture labels, the chemical names selected
30 should identify the substances primarily responsible for the major health hazards
31 which have caused the classification of the mixture and the assignment of the
32 corresponding hazard statements.

33 To reduce the number of substance ('chemical') names on the label, no more than
34 four names should be provided on the label for a mixture, unless necessary due to
35 the nature and severity of the hazards. This may be the case where a mixture
36 contains more than four substances which are all present in significant
37 concentrations so that they contribute to the classification of the mixture for one or
38 several of the hazards mentioned under the second bullet above.

39 Sometimes a manufacturer, importer or downstream user may conclude that certain
40 substance identifiers for a substance contained in a mixture that are required for the
41 label or the Safety Data Sheet will put the confidential nature of his business or
42 intellectual property rights at risk. In such cases he can direct a request to use an
43 alternative chemical name for that substance to the Member State Competent

⁵ Where the IUPAC name exceeds 100 characters, suppliers can use one of the other names (usual name, trade name or abbreviation) referred to in section 2.1.2 of Annex VI REACH provided that a C&L notification to the Agency, in accordance with CLP Article 40(1)(b), includes both the IUPAC name and the other name used.

⁶ INCI means *International Nomenclature of Cosmetic Ingredients*

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 Authority under the provisions of DPD Article 15. Where the corresponding mixture
2 has already been classified, labelled and packaged in accordance with CLP before 1
3 June 2015, as well as after that date, this request should be submitted to the Agency.
4 The alternative name should be a more general name identifying the most important
5 functional groups or an alternative designation, see CLP Article 24. Such requests
6 shall be accompanied by a fee, in accordance with Article 3 of Commission
7 Regulation (EU) No 440/2010. The corresponding IT tools as well as an explanatory
8 document will be made available by the European Chemicals Agency.

9 **4.3 Hazard pictograms**

10 A hazard pictogram is meant to be a pictorial presentation of a particular hazard, see
11 also the definition provided in CLP Article 2(3). According to CLP Article 19, the
12 classification of a substance or mixture determines the hazard pictograms that should
13 be displayed on a label, as set out in parts 2 (physical hazards), 3 (health hazards)
14 and 4 (environmental hazards) of Annex I to CLP. The assignment of hazard
15 pictograms to specific hazard classes and categories/differentiations can also be
16 found in Annex V to CLP. Currently there are nine different pictograms. While
17 normally only one pictogram is assigned to a certain hazard class or category, few
18 hazard differentiations have to carry two pictograms, namely substances and
19 mixtures classified as self-reactive Type B or as organic peroxide Type B, see also
20 below.

21 The colour and presentation of a label should allow the hazard pictogram and its
22 background to be clearly visible, see CLP Article 31(2). Hazard pictograms should be
23 in the shape of a square set at a point, i.e. they should appear as a diamond shape
24 when the label is read horizontally, and should have a black symbol on a white
25 background with a red border (see section 1.2.1 of Annex I to CLP). The exact type
26 of red, i.e. the Pantone colour number, is not defined, and labellers are free to use
27 their discretion: Each hazard pictogram⁷ should cover at least one fifteenth of the
28 surface area of the label dedicated to the information required by CLP Article 17, but
29 the minimum area shall not be less than 1 cm².

30 The pictograms are provided free of charge for download from the website
31 <http://www.unece.org/trans/danger/publi/ghs/pictograms.html>. An example is the
32 exclamation mark (pictogram GHS07), which is assigned to various health hazard
33 classes and categories of lower severity, see Part 2 of Annex V to CLP:



34
35 For substances and mixtures classified for more than one hazard, several pictograms
36 may be required for the label. In such cases it should be checked whether the
37 precedence rules set out in CLP Article 26 apply. As a general rule, the pictograms
38 which reflect the most severe hazard category of each hazard class should be
39 included on the label. This would also apply where a substance has both a
40 harmonised and a non-harmonised (i.e. self-) classification, see CLP Article 26(2).

⁷ The size of the pictogram relates here to the dimensions of the pictogram itself, and not to the size of the virtual square where the pictogram is in.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 Further to this, CLP sets out precedence rules relating to particular hazard
2 pictograms and classifications:

- 3 • **For physical hazards**, if the label carries the pictogram GHS01 (exploding
4 bomb), then GHS02 (flame) and GHS03 (flame over circle) are optional ...

5



6

7

mandatory optional optional

8

9

10

... except in cases where more than one pictogram is compulsory,
namely for substances and mixtures classified as self-reactive Type B or as
organic peroxide Type B, see Annex I to CLP;

11

12

13

14

- **For physical and health hazards**, if the label carries the pictogram GHS02
(flame) or GHS06 (skull and crossbones), then GHS04 (gas cylinder) is optional
...



16

mandatory or mandatory optional

17

18

19

- **For health hazards**, if the label carries the pictogram GHS06 (skull and
crossbones), then GHS07 (exclamation mark) should not appear:



20

21

22

23

24

- **For health hazards**, if the label carries the pictogram GHS05 (corrosion), then
GHS07 (exclamation mark) should not be used for skin or eye irritation ...



25

26

27

28

... but still has to be used for other hazards;

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

- 1 • **For health hazards**, if the label carries the pictogram GHS08 (health hazard) for
2 respiratory sensitisation, then GHS07 (exclamation mark) should not be used for
3 skin sensitisation or for skin or eye irritation ...



5
6

7 ... but still has to be used for other hazards.

8 Please note that the transport rules on labelling may apply to your substance or
9 mixture as well. In certain cases, a particular CLP hazard pictogram on the
10 packaging may be omitted, see CLP Article 33.

11 In case a substance or mixture is assigned the supplemental hazard statement
12 EUH071 (“Corrosive to the respiratory tract”), a corrosivity pictogram (GHS05) may
13 be assigned, see Note 1 of Table 3.1.3 of Annex I to CLP. Where this is done, the
14 pictogram GHS07 for STOT, single exposure, category 3 (respiratory tract irritation)
15 can be omitted from the label, as well as the hazard statement H335 (“May cause
16 respiratory irritation”), see below.

17 For substances and mixtures that have to be labelled both in accordance with the
18 CLP Regulation and with the rules on the transport of dangerous goods, the CLP
19 pictograms may be omitted from the label where a similar transport pictogram
20 appears, see also CLP Article 33 and [section 5.4](#) of this document.

21 **4.4 Signal words**

22 A signal word indicates the severity of a particular hazard. The label should include
23 the relevant signal word in accordance with the classification of the hazardous
24 substance or mixture: more severe hazards require the signal word ‘danger’ while
25 less severe hazards require the signal word ‘warning’, see CLP Article 20.

26 The signal word relevant for each specific classification is set out in the tables
27 indicating the label elements required for each hazard class as set out in parts 2 to 5
28 of Annex I to CLP. Some hazard categories (for example explosives, division 1.6) do
29 not have a signal word.

30 Where a substance or mixture is classified for more than one hazard, the label
31 should only bear one single signal word. In such cases, the signal word ‘danger’
32 should take precedence.

33 **4.5 Hazard statements**

34 CLP hazard labels should also bear the relevant hazard statements describing the
35 nature and severity of the hazards of a substance or mixture, see CLP Article 21. An
36 example is the hazard statement assigned to acute oral toxicity, category 4: “Harmful
37 if swallowed” (H302).

38 The hazard statements relevant for each hazard class and category/differentiation
39 are set out in the tables contained in parts 2 to 5 of Annex I to CLP. For most hazard

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 statements, the wording can be taken as stated in Table 1.2 of Annex III to CLP. For
2 some health hazard statements, the route of exposure or the target organ may have
3 to be included in the statement as well, e.g. “Causes damage to the liver via
4 ingestion” (H370) for STOT-SE, category 1. See also [section 4.8](#) of this document.

5 If a substance classification is harmonised and included in Part 3 of Annex VI to CLP,
6 the corresponding hazard statement(s) relevant for this classification should be used
7 on the label. Note that some classifications in Part 3 of Annex VI to CLP are
8 minimum classifications, in which case a more severe classification as well as the
9 corresponding hazard statement may have to be assigned. Also, hazard statements
10 may need to be included for non-harmonised hazards which are not covered in the
11 Annex VI listing, see CLP Article 4(3).

12 It should be noted that in contrast to DSD, combined hazard statements are currently
13 not foreseen under CLP. Nevertheless, some combined hazard statements have
14 already been agreed at UN level and published in the 3rd revised edition of the UN
15 GHS – these are applicable when the 2nd Adaptation to Technical Progress (ATP) to
16 the CLP Regulation has entered into force. This means that from 1 December 2012
17 for substances and from 1 June 2015 for mixtures the hazard statements relating to
18 different routes of exposure, but to the same category, can appear as combined
19 statements on the label and in the Safety Data Sheet, e.g. H301+H311 for category 3
20 for the oral and dermal route: “Toxic if swallowed or in contact with skin”.

21 If a substance or mixture is classified within several hazard classes or differentiations
22 of a hazard class, all hazard statements resulting from the classification shall appear
23 on the label, unless there is evident duplication or redundancy, see CLP Article 27.
24 This will also apply to a substance or mixture which is assigned the supplemental
25 hazard statement EUH071 (“Corrosive to the respiratory tract”): in this case, the
26 hazard statement H335 (“May cause respiratory irritation”) for STOT, single
27 exposure, category 3 (respiratory tract irritation) can be omitted from the label.

28 Annex III to CLP lists, in all languages, the correct wording of the hazard statements
29 as it should appear on the label. The hazard statements of one language should be
30 grouped together with the precautionary statements of the same language on the
31 label, see also [section 3.3](#) above.

32 **4.6 Precautionary statements**

33 CLP hazard labels should bear the relevant precautionary statements giving advice
34 on measures to prevent or minimise adverse effects to human health or the
35 environment arising from the hazards of a substance or mixture, see CLP Article 22.
36 An example is the precautionary statement “DO NOT fight fire when fire reaches
37 explosives.” (P373). The complete set of precautionary statements relevant for each
38 hazard class and category/differentiation is listed by alphanumeric code in the tables
39 indicating the label elements required for each hazard class in parts 2 to 5 of Annex I
40 to CLP.

41 Precautionary statements should be selected in line with the generic provisions set
42 out in CLP Article 22 and 28 and with Part 1 of Annex IV to CLP: any selection
43 should take into account the hazard statements used, the intended or identified use
44 or uses of the substance or mixture as well as the basic instructions specified in the
45 “conditions for use” columns in tables 6.1 – 6.5 of Annex IV to the CLP Regulation.
46 Doubling and redundancy should be avoided. Where the substance or mixture is
47 supplied to the general public, one precautionary statement addressing the disposal
48 of that substance or mixture as well as the disposal of packaging shall in general

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 appear on the label, see CLP Article 28(2). Normally, not more than six precautionary
2 statements should appear on the label, unless necessary to reflect the nature and the
3 severity of the hazards.

4 In order to provide assistance with the selection of the most appropriate
5 precautionary statements, pertinent guidance is provided in **section 7** of this
6 document.

7 Part 2 of Annex IV to CLP lists, in all languages, the correct wording of the
8 precautionary statements as it should appear on a label. The precautionary
9 statements of one language should be grouped together with the hazard statements
10 of the same language on the label, see also **section 3.3** above.

11 **4.7 Codes for hazard and precautionary statements**

12 Hazard and precautionary statements are codified using a unique alphanumerical
13 code which consists of one letter and three numbers, as follows:

- 14 • the letter “H” (for “hazard statement”) or “P” (for “precautionary statement”).
15 Please note that hazard statements carried through from DSD and DPD, but
16 which are not yet included in the GHS are codified as “EUH”;
- 17 • for hazard statements, a digit designating the type of hazard, e.g. “2” for physical
18 hazards; and two digits corresponding to the sequential numbering of hazards,
19 such as explosivity (codes from 200 to 210), flammability (codes from 220 to
20 230), etc.
- 21 • for precautionary statements, a digit reflecting one of five types of statements,
22 namely general statements (1), prevention statements (2), response statements
23 (3), storage statements (4) and disposal statements (5), followed by two digits for
24 the sequential numbering of the statements themselves.

25 The code ranges for the hazard and precautionary statements under CLP are set out
26 in Table 4 below:

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 **Table 4:** Code ranges of hazard and precautionary statements under CLP

Hazard Statements: H	Precautionary Statements: P
200 – 299 Physical hazard	100 – 199 General
300 – 399 Health hazard	200 – 299 Prevention
400 – 499 Environmental hazard	300 – 399 Response
	400 – 499 Storage
	500 – 599 Disposal

2 It should be noted that the codes of the hazard and precautionary statements as well
3 as of any supplemental label elements referred to in CLP Article 25(1) are not
4 necessary for the label – CLP only requires the actual phrasing of the applicable
5 statements for the label.

6 **4.8 Supplemental labelling information**

7 CLP Article 25 introduces the concept of ‘supplemental information’ which is intended
8 to incorporate additional labelling information over and above that listed in CLP
9 Article 17(a) to (g). This additional labelling information can be divided into two
10 categories, namely obligatory and non-obligatory information. Both types count as
11 ‘supplementary information’ under CLP and should be located in the section for
12 supplemental information on the label while they should appear in the same
13 languages as the other CLP label elements.

14 The obligatory supplemental labelling information can in principle be:

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

- 1 • Supplemental hazard statements relating to particular physical and health
2 properties, which have been taken over from DSD. These are codified as “EUH”
3 statements, e.g. EUH001, see Part I of Annex II, while the code number
4 corresponds to the number of the relevant risk phrase under DSD, i.e. EUH001
5 corresponds to R1 under DSD. For some substances with harmonised
6 classifications, supplemental hazard statements are included in Part 3 of Annex
7 VI;
- 8 • Supplemental statements for certain mixtures taken over from DPD, e.g. the
9 phrase “Contains isocyanates. May produce an allergic reaction” (EUH204), see
10 Part 2 of Annex II to CLP. These phrases are assigned EUH codes as well, to
11 align their presentation with the supplemental hazard statements, see above;
- 12 • For the label of substances until 1 December 2012 and of mixtures until 1 June
13 2015: the signal word (Danger) and hazard and precautionary statements
14 relating to the classification “Hazardous to the ozone layer” which has been
15 retained from DSD, see Part 5 of Annex I. The individual labelling elements for
16 this hazard class are subject to the precedence rules set out in CLP Articles 20
17 and 26-28. After the aforementioned dates and following the adoption of the 2nd
18 ATP to the CLP Regulation, this hazard class will be converted into a regular CLP
19 hazard class. This means that the signal word (Warning), the hazard statement
20 H420 (Harms public health and the environment by destroying ozone in the upper
21 atmosphere), the precautionary statement P502 (Refer to manufacturer/supplier
22 for information on recovery/recycling) and the hazard pictogram GHS07
23 (exclamation mark) will have to be applied, in accordance with the provisions of
24 Title III of CLP;
- 25 • Specific response information as referred to in the brackets of the precautionary
26 statements P320 “Specific treatment is urgent (see ... on this label), P321
27 “Specific treatment (see ... on this label)” and P322 “Specific measures (see ...
28 on this label)” in Annex IV to CLP, e.g. “see supplemental first aid instructions on
29 this label” or “see supplemental instructions on the administration of antidotes on
30 this label”. See also Table 5 below and the tables in section 7.3 of this document;
- 31 • For mixtures containing components of unknown acute toxicity at a concentration
32 at 1% or greater, the statement “x percent of the mixture consists of
33 component(s) of unknown toxicity”, see point 3.1.3.6.2.2 of Annex I to CLP. This
34 statement will also have to be included in the Safety Data Sheet. In this
35 connection, it may be worthwhile to specify the statement as follows: “x percent of
36 the mixture consists of component(s) of unknown acute (oral/dermal/inhalation)
37 toxicity”, in particular where the substance is also classified for other hazards and
38 where it is important to specify the route of exposure, see also point 3.1.4.2 of the
39 Guidance on the Application of the CLP Criteria;
- 40 • As of 1 June 2015 and following the 2nd ATP to the CLP Regulation: for mixtures
41 where no useable information on the acute and/or long-term hazard to the
42 aquatic environment is available for one or more of the relevant components, the
43 statement “Contains x percent of components with unknown hazards to the
44 aquatic environment”, see the changes to point 4.1.3.6.1 of Annex I to CLP. This
45 statement has currently to be included in the Safety Data Sheet only;
- 46 • Label elements required by the applicable Community legislation on plant
47 protection products, i.e. Directive 91/414/EEC or Regulation (EC) No 1107/2009,
48 e.g. the statements SP1 and SPe3 or EUH401 (see Part 4 of Annex II);

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

- 1 • Label elements resulting from other Community acts, see CLP Article 32(6), e.g.
2 the authorisation number requested by the REACH Regulation (EC)
3 No1907/2006, the listing of surfactants and perfumes according to the Detergents
4 Regulation 648/2004, the flammability labelling according to the Aerosol
5 Dispensers Directive 75/324/EEC or the content of volatile organic compounds
6 (VOC) in accordance with the VOC Directive 2004/42/EC.

7 It should be noted that in some cases additional information to complement a hazard
8 statement may have to be provided, such as the specification of the route of
9 exposure or of the target organ for certain health hazards, i.e. for the CMR and the
10 STOT single and repeated exposure hazard classes. For example, for the STOT
11 repeated exposure hazard class, the hazard statement H372 (“Causes damage to
12 organs through prolonged or repeated exposure”) should be complemented by the
13 organs affected if known and by the route of exposure if it is conclusively proven that
14 no other routes of exposure cause the hazard. However, this does not constitute
15 supplementary labelling information in the meaning of CLP Article 25. It is rather
16 additional hazard information which is required to be included within the hazard
17 statement itself, beyond the standardised wording as set out in Table 1.2 of Annex III
18 to CLP, see also **section 4.5** of this document.

19 Most of this obligatory supplemental information is taken over from DSD/DPD and
20 therefore usually only applies in the EU. For any supplemental hazard statements
21 included in CLP, a new “EU” codification system is introduced, to distinguish them
22 from the hazard statements originating from the UN GHS. These are easily
23 recognizable with a EUH code.

24 As it is obligatory to place this information alongside the label elements required by
25 CLP Article 17(a) to (g), these supplemental label elements need to be considered
26 carefully as to the location and the space they need when preparing a CLP label for a
27 substance or mixture. **Obligatory supplemental information, when applied,
28 should be easy to identify and to read. Naturally, it should take precedence
29 over any non-obligatory supplemental information if space on the label is
30 limited.** However in some cases suppliers may find they need to include certain
31 elements on the label which are not legally obligatory, but are necessary for the
32 handling and use of the product – such as basic instructions for use. In this case, the
33 need for such information should also be taken into account when deciding how to
34 lay out the label.

35 In this connection it should be mentioned that CLP suggests, but does not explicitly
36 require that the section for supplemental label information should be one single
37 location on the label – a supplier may also choose to place the supplemental
38 information in several locations, taking into account the requirements of CLP Article
39 25. Examples are i.a. provided by the labels 6.3 and 6.5 in **section 6** of this
40 document. Similarly, CLP suggests, but does not explicitly require that the section for
41 supplemental label information be marked or visibly separated from the labelling
42 elements according to CLP Article 17(a) to (g), e.g. by placing it in another section of
43 the label, by putting it in a text box, by colour or by different letter size.

44 Undoubtedly visible separation will support the identification of the labelling elements
45 which come from the UN GHS. However, and on a case-by-case basis, it may not be
46 advisable to make a visible differentiation between the CLP elements and obligatory
47 supplemental labelling information that is requested by other legislation, namely
48 where the latter supports the safe handling and use of a substance or mixture
49 according to harmonised Community rules, e.g. in the case of plant protection
50 products, see example label 6.6 below.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 Similarly, where additional EUH statements express a similar warning as contained in
2 the hazard statements which reflect a classification, it is even advisable to group both
3 statements together on the label so that they reinforce each other, e.g. for lithium (EC
4 No 231-102-5) which is classified as water-reactive category 1, EUH014 (Reacts
5 violently with water.) is very similar to H260 (“In contact with water releases
6 flammable gases which may ignite spontaneously.”), see example label 6.4 below.

7 In relation to readability, obligatory labelling information required by other Community
8 legislation, e.g. the authorisation number required by Regulation (EC) No 1107/2009⁸
9 or the listing of specified constituents as required by Regulation (EC) No 648/2004⁹,
10 should not be treated differently from other obligatory labelling information required
11 by CLP itself: Similar to the latter, it should be easy to identify and to read and take
12 precedence on the CLP label over any other non-obligatory supplemental
13 information.

14 An overview of the obligatory supplemental label elements to be included in the
15 section for supplemental information on the label is provided in Table 5:

⁸ Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market repeals Council Directives 79/117/EEC and 91/414/EEC with effect from 14 June 2011. However Article 80 of Regulation (EC) No 1107/2009 specifies that directive 91/414/EEC shall continue to apply with respect to active substances included in Annex I to that Directive for certain transitional periods.

⁹ Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

1 **Table 5:** Obligatory supplemental labelling information pursuant to CLP Articles 25 and 32

Legal Reference	Type and Applicability	Code	Content / Phrasing
CLP Article 25(1) and Annex II, Part 1, section 1.1	a) Supplemental hazard statements relating to certain physical properties of substances and mixtures. They need to be assigned in accordance with the conditions specified in Annex II when a substance or mixture has already been classified on the basis of the criteria in Annex I to CLP. For some substances with harmonised classifications, supplemental hazard statements are included in Part 3 of Annex VI.	EUH001	<i>Explosive when dry</i>
		EUH006	<i>Explosive with or without contact with air</i>
		EUH014	<i>Reacts violently with water</i>
		EUH018	<i>In use, may form flammable/explosive vapour-air mixture</i>
		EUH019	<i>May form explosive peroxides</i>
		EUH044	<i>Risk of explosion if heated under confinement</i>
CLP Article 25(1) and Annex II, Part 1, section 1.2	b) Supplemental hazard statements relating to health properties of substances and mixtures. They need to be assigned in accordance with the conditions specified in Annex II, Part 1, section 1.2 when a substance or mixture has already been classified on the basis of the criteria in Annex I to CLP. For some substances with harmonised classifications, supplemental hazard statements are included in Part 3 of Annex VI. For EUH071, see also Annex I, Table 3.1.3, Note 1	EUH029	<i>Contact with water liberates toxic gas</i>
		EUH031	<i>Contact with acids liberates toxic gas</i>
		EUH032	<i>Contact with acids liberates very toxic gas</i>
		EUH066	<i>Repeated exposure may cause skin dryness or cracking</i>
		EUH070	<i>Toxic by eye contact</i>
		EUH071	<i>Corrosive to the respiratory tract</i>
CLP Article 25(6) and Annex II, Part 2	Supplemental statements for certain mixtures. They need to be assigned to mixtures in accordance with the conditions specified in Annex II, Part 2.		
	1. Mixtures containing lead	EUH201	<i>Contains lead. Should not be used on surfaces liable to be chewed or sucked by children</i>
	- for packaging content less than 125 ml	EUH201A	<i>Warning! Contains lead.</i>
	2. Mixtures containing cyanoacrylates	EUH202	<i>Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.</i>
	3. Cement and cement mixtures	EUH203	<i>Contains chromium (VI). May produce an allergic reaction</i>
	4. Mixtures containing isocyanates	EUH204	<i>Contains isocyanates. May produce an allergic reaction</i>
5. Mixtures containing epoxy constituents with an average molecular weight ≤ 700	EUH205	<i>Contains epoxy constituents. May produce an allergic reaction</i>	

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

Legal Reference	Type and Applicability	Code	Content / Phrasing
	6. Mixtures sold to the general public which contain active chlorine	EUH206	<i>Warning! Do not use together with other products. May release dangerous gases (chlorine)</i>
	7. Mixtures containing cadmium (alloys) and intended to be used for brazing or soldering	EUH207	<i>Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.</i>
	8. Mixtures not classified as sensitising but containing at least one sensitising substance	EUH208	<i>Contains (name of sensitising substance). May produce an allergic reaction</i>
	9. Liquid mixtures containing halogenated hydrocarbons	EUH209 EUH209A	<i>Can become highly flammable in use</i> or <i>Can become flammable in use</i>
	10. Mixtures not intended for the general public	EUH210	<i>Safety Data Sheet available on request</i>
	11. Aerosols		Aerosols are also subject to the labelling provisions of Directive 75/324/EEC
CLP Article 25(5) and Annex I, Part 5	Signal word, hazard statement and precautionary statements for a hazard class included in Part 5 of Annex I (see the pertinent bullet point in the text preceding this table)	EUH059 P273 P501	<i>Danger</i> (signal word) <i>Hazardous to the ozone layer</i> <i>Avoid release to the environment</i> <i>Dispose of contents/container to (specification of the site of disposal or of the applicable legislation, see section 7 below)</i>
Annex IV	Substances and mixtures assigned the precautionary statements - P320 - Specific treatment is urgent (see ... on this label). - P321 - Specific treatment (see ... on this label). - P322 - Specific measures (see ... on this label).		Supplemental first aid instruction (e.g. administration of an antidote) referred to in the brackets of the precautionary statements
Annex I, section 3.1.3.6.2.2.	Mixture containing ingredient(s) of unknown acute toxicity at a concentration at 1% or greater		<i>x percent of the mixture consists of component(s) of unknown toxicity</i> (also for Safety Data Sheet)
Annex I, section 4.1.3.6.1	Mixture where no useable information on the acute and/or long-term aquatic hazard is available for one or more of the relevant components		<i>Contains x percent of components with unknown hazards to the aquatic environment</i> (also for Safety Data Sheet)
Label elements resulting from Directive 91/414/EEC or Regulation (EC) No 1107/2009 on plant	Supplemental statements relating to plant protection products	EUH401 SP1, SPe3 et al.	<i>To avoid risks to human health and the environment, comply with the instructions for use</i> obligatory statements required by the applicable Community legislation on plant protection

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Legal Reference	Type and Applicability	Code	Content / Phrasing
protection products, pursuant to CLP Article 25(2) and 32(6)			products
Label elements resulting from other Community acts pursuant to Article 32(6)	<u>Examples:</u> <ul style="list-style-type: none"> - Regulation (EC) No 1907/2006 (REACH) - Regulation (EC) No 648/2004 (detergents) - Directive 75/324/EEC (aerosol dispensers) - Directive 2004/42/EC (VOC) 		<ul style="list-style-type: none"> - authorisation number - listing of specified constituents such as anionic surfactants, oxygen bleaching agents, enzymes, disinfectants, optical brighteners and perfumes - flammability labelling - content of volatile organic compounds

1 Non-obligatory supplemental labelling information, the content of which is up to the
 2 discretion of the supplier, is not part of the labelling requirements under CLP. It can
 3 include, for example, specific product information or particular instructions for use.

4 This non-obligatory supplemental information may also be placed alongside the label
 5 elements required in CLP Article 17(a) to (g) and the obligatory supplemental
 6 information, when applied. However, it should not distract from nor contradict to
 7 these obligatory label elements and should also provide further details, see CLP
 8 Article 25(3). In addition, any non-obligatory supplemental information, either
 9 included on the label or on the packaging, should be consistent with the classification
 10 of the substance or mixture, see CLP Article 25(4). This means that statements like
 11 'non-toxic', 'non-polluting' or 'ecological', statements suggesting that the
 12 substance/mixture is not hazardous or statements that are incompatible with the
 13 assigned classification should not appear on the label or packaging of a classified
 14 substance or mixture.

1 5. GUIDANCE ON PARTICULAR ASPECTS OF CLP 2 HAZARD LABELLING

3 5.1 Further aspects to consider for the CLP hazard label

4 To enable the supplier to design labels in compliance with CLP while at the same
5 time allowing for as much freedom in arranging labels as possible, further labelling
6 aspects should be considered:

- 7 • **Label size:** section 1.2 of Annex I to CLP defines the label size, setting out
8 **minimum dimensions** for the label, with the pictogram size being linked to these
9 minimum dimensions. Nevertheless, the label should be large enough to contain
10 all the label elements defined by CLP while remaining legible. As a result, the
11 label may need to be larger than the minimum area specified;
- 12 • **Specific labelling rules:** they refer to specific labelling and packaging situations,
13 e.g. where a substance or mixture is contained in **awkwardly shaped or small**
14 **packaging**, see CLP Article 29. Other rules, i.e. the rules set out in CLP Article
15 33, refer to **multiple layers of packaging** and/or where a substance or mixture is
16 subject to the labelling provisions of the CLP Regulation and to **the labelling**
17 **provision in accordance with the rules on the transport of dangerous goods**
18 according to the United Nations Model Regulations on the Transport of
19 Dangerous Goods (the so-called "Orange Book") which are implemented in the
20 EU through international modal agreements and Directive 2008/68/EC,
21 hereinafter referred to as the rules on the transport of dangerous goods. The
22 person(s) responsible for compiling a CLP label needs to consider all of these
23 rules before making a final decision on the label of his substance or mixture;
- 24 • **Selection of precautionary statements:** while the rules on the use of signal
25 words, hazard pictograms and hazard statements are quite unambiguous in CLP,
26 see above, the **selection of the most appropriate set of precautionary**
27 **statements** for the label is largely at the discretion and ingenuity of the supplier.
28 To facilitate this selection, guidance on the selection of precautionary statements
29 is provided in **section 7** of this document. The guidance builds upon the generic
30 provisions set out in CLP Article 22 and 28 as well as the basic instructions
31 provided in the columns containing the conditions for use in tables 6.1-6.5 of
32 Annex IV to CLP. It takes into account i.a. the intended uses and the physical
33 properties of the substance or mixture.

34 5.2 Size of the label and of the label elements

35 As outlined in **section 3.4** above, the number of label elements required for a CLP-
36 compliant label for a given substance or mixture can be higher compared to the
37 DSD/DPD regime for various reasons. Further label elements may have to be added,
38 requiring additional labelling space and possibly also another labelling arrangement
39 compared to the DSD/DPD label.

40 The CLP Regulation defines minimum dimensions on the size of the label and some
41 of its elements. They are detailed in section 1.2 of Annex I to CLP, see also Table 6
42 below. The minimum dimensions are taken over from DSD.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 **Table 6:** Minimum dimensions of labels and pictograms under CLP

Capacity of the package	Dimensions of the label (in millimetres)	Dimensions of the pictogram (in millimetres)
≤ 3 litres	If possible, at least 52 x 74	Not smaller than 10 x 10 If possible, at least 16 x 16
> 3 litres but ≤ 50 litres	At least 74 x 105	At least 23 x 23
> 50 litres but ≤ 500 litres	At least 105 x 148	At least 32 x 32
> 500 litres	At least 148 x 210	At least 46 x 46

2

3 In general, CLP requires that the label elements as referred to in CLP Article 17(1) be
4 of such size and spacing as to be easily read (see also [section 3.1](#) of this document).

5 The exact **size of the letters** of the signal words, hazard statements, precautionary
6 statements and any supplemental information is not further defined in the legal text,
7 i.e. it is left to the discretion of the supplier. This means that a stakeholder may
8 decide himself whether he wants to increase the letter size with the overall volume of
9 the packaging and dimensions of the label, or to fix it more or less for all volumes and
10 labels.

11 Similarly, a supplier may decide whether he prefers to have larger letter sizes for
12 certain label elements while others are presented in smaller letters. Actually some
13 companies choose to provide the signal word “Danger” or “Warning” in larger letters
14 on the label than the hazard and precautionary statements. Various companies also
15 choose to generally present the obligatory label elements in larger letters than the
16 non-obligatory labeling information. Both scenarios are in principle compatible with
17 the CLP legal text as far as the obligatory information on the label can be easily read.

18 Actually some stakeholders recommend to use a minimum letter size of 1,8 mm, in
19 order to warrant the legibility of the text. However, this can be understood as
20 recommendation only, but not as legal requirement which is fixed in the CLP
21 Regulation.

22 In relation to the hazard pictograms, CLP links the **size of the pictograms** to the
23 minimum dimensions of the label: each hazard pictogram¹⁰ should cover at least one
24 fifteenth of the surface area of the label dedicated to the information required by CLP
25 Article 17 (obligatory labelling information), but the minimum area shall not be less
26 than 1 cm², see section 1.2.1.2 of Annex I to CLP. The idea behind this is that the
27 label size and the size of the pictograms should remain proportional to the size of the
28 packaging.

29 In principle, a label complying with the minimum dimensions set out above should be
30 large enough to contain all the label elements defined in CLP Article 17 while
31 remaining legible. Precedence should be given to the obligatory label elements, i.e.
32 to those elements defined in Article 17(a) to (g) and any obligatory supplemental
33 information required by CLP and other Community/EU legislation. If a supplier
34 chooses to add non-obligatory supplemental label elements, legibility may be

¹⁰ The size of the pictogram relates here to the dimensions of the pictogram itself, and not to the size of the virtual square where the pictogram is in.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 warranted only where a small amount of such information is added. For larger
2 amounts of non-obligatory information the supplier should consider to limit it or to
3 increase the size of the label and possibly also the size of the different obligatory
4 label elements. This should serve the purpose of facilitating the identification and
5 maintaining the legibility of the obligatory label elements as referred to in CLP
6 Articles 17 and 25.

7 It should be noted that a pictogram covering one fifteenth of the minimum dimensions
8 as defined in Table 1.3 of Annex I to CLP is considered to be legible. Its size has to
9 be increased in all cases where it occupies less than 1/15th of the surface area of the
10 label dedicated to the information required by CLP Article 17 (obligatory labelling
11 information). However, where a supplier chooses to use a label that is larger than the
12 minimum dimensions for a certain capacity of the package, it is not necessary for the
13 pictogram to be increased as well, provided it covers one fifteenth of the relevant
14 minimum dimensions, i.e. for a container of a capacity > 50 litres, but ≤ 500 litres, the
15 minimum size of a pictogram must be 32 mm x 32 mm, which is 1/15th of the
16 minimum dimensions (105 mm x 148mm) set out in Table 1.3 of Annex I to CLP. Any
17 additional area gained by increasing the size of the label can be used for further
18 information which is considered important by the supplier. However, this should be
19 weighed against the requirement of CLP Article 25(3), namely that non-obligatory
20 supplemental information should not make it more difficult to identify the obligatory
21 CLP label elements.

22 5.3 Exemptions from the labelling and packaging requirements

23 Not all packages will allow displaying the necessary labelling information on the label
24 or the packaging in line with the requirements of CLP Article 31. CLP Article 29 and
25 section 1.5.1 of Annex I recognise such situations in providing derogations for
26 packaging which is so small or in such a shape or form or that it is impossible to meet
27 the requirements of CLP Article 31. While most of these provisions were brought over
28 from DSD/DPD (“small and awkward packaging”), some new ones were introduced
29 through CLP, out of the necessity for the legal framework to keep up with the
30 developments in packaging technology, and to allow suppliers some flexibility when
31 dealing with packaging that is difficult to label.

32

33 5.3.1 Use of fold-out labels, tie-on tags and outer packaging

34 The packaging of a substance or mixture can be so small or in such a shape or form
35 that it is impossible to display the label elements in line with the requirements of CLP
36 Article 31. This could either be because more than one language needs to be
37 included on the label in the Member State where the chemical is being placed on the
38 market, or simply because the packaging is too small or difficult to label because of
39 its form/shape so that the full range of labelling elements even in a single language
40 cannot be displayed (in accordance with CLP Article 31). In particular, it may be
41 impossible for the label to be read horizontally when the package is set down
42 normally or the label elements are of insufficient size and spacing as to be easily
43 read.

44 In this situation the label elements defined under CLP Article 17 may be provided
45 either on

- 46 • fold-out labels; or
- 47 • tie-on tags; or on

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

- 1 • outer packaging.

2 Where one of these alternatives is used, the part of the label which is attached to the
3 packaging or, in relation to the last bullet, the label on any inner packaging shall
4 contain at least the hazard pictogram(s), the product identifier referred to in CLP
5 Article 18 and the name and telephone number of the supplier of the substance or
6 mixture, while the signal word, the hazard and precautionary statements as well as
7 the supplemental label information may be omitted, see section 1.5.1.2. of
8 Annex I to CLP.

9 It should be noted that these alternatives may not be used where a label becomes
10 unreadable because the supplier has chosen to add more languages on a label than
11 are required in the Member State where the substance or mixture is placed on the
12 market. In such cases the additional languages should be omitted from the label and
13 a separate label should be prepared for the other Member State(s) where these are
14 required.

15 **Fold-out labels** can be an option and are in fact commonly used where the amount
16 of supplemental information required by other legislation means that the total label
17 would be too large for the inner packaging. Compared to tie-on tags, the use of fold-
18 out labels will probably be the preferred option as this will offer most space for the
19 label elements in many cases.

20 In general, when a supplier recognizes the need to use *fold-out labels* or *tie-on tags*,
21 he should consider the following aspects:

- 22 • **General requirements:** Generally, a tie-on tag or fold-out label should meet the
23 same performance standards as a normal label i.e. the contents should be
24 indelible, easy to read and stand out from the background. As far as reasonably
25 practical, the size of the fold-out label or tie-on tag should be the same size as
26 the equivalent normal label. Similarly, the size of the pictograms should be the
27 same as the pictograms on the equivalent, normal label.
- 28 • **Attachment:** The fold-out label or tie-on tag should be securely attached to the
29 packaging. This means that the label is likely to remain attached to the packaging
30 during reasonably expected handling of the package. If part of a fold-out label is
31 designed to be removed from the inner packaging as a standalone booklet, then
32 the CLP information should remain on the packaging. CLP requires that this is at
33 least the hazard pictograms, the product identifier and the name and telephone
34 number of the supplier of the substance or mixture.
- 35 • **Material:** There is no specific standard for label materials and performance.
36 Where labels also contain dangerous goods information and the package is
37 intended to be transported, the performance as required by the code which is
38 relevant to the specific mode of transport has to be applied, e.g. by the IMDG
39 code for the maritime mode of transport.

40 Fold-out labels are often made of normal, uncoated paper. Where the contents of a
41 package may attack the printing, it is possible to coat the label with a protective
42 coating. Current standard practice is that normally only the outer page is coated. In
43 this situation, the label designer should include the information required by CLP
44 Article 17 (obligatory labelling information) on the outer page, with the non-obligatory
45 information (non-obligatory supplemental information) on the inner pages. Where this
46 is not possible because of space constraints on the outer, coated page, he should at
47 least include the hazard pictograms, the product identifier(s) referred to in CLP Article
48 18 and the name and telephone number of the supplier of the substance or mixture
49 on the outer page, with the remaining information on the inner pages.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 In this connection, it should be emphasized that pursuant to Recital 47 of the CLP Regulation,
2 Directive 91/414/EEC on plant protection products and Directive 98/8/EC on biocidal products
3 “should remain fully applicable to any product within their scope.” Further to this, and in
4 relation to plant protection products, the new Regulation (EC) No 1107/2009 provides in its
5 Article 80(6) that “products labelled in accordance with Article 16 of Directive 91/414/EEC
6 may continue to be placed on the market until 14 June 2015.”

7 An example of the labeling requirements of Directive 91/414/EEC is provided by Article 16(2)
8 of Directive 91/414/EEC: it provides that Member States may permit the requirements in
9 Article 16(1) (l), (m) and (n) to be indicated on a separate leaflet accompanying the package if
10 the space available on the package is too small. This suggests considering the inner pages of
11 a fold-out label as such kind of leaflet that could incorporate the mentioned items. It should be
12 noted, however, that a (fold-out) leaflet may not contain items such as safety precautions for
13 the protection of humans, animals or the environment, in the form of standard phrases
14 selected as appropriate from those given in Annex V of the Directive, see item (h) of the same
15 paragraph, or the type of action of the plant protection product (e.g. insecticide, growth
16 regulator, weed killer, see item (i) of that paragraph; they should remain on the label which is
17 displayed on the packaging or on the outer page of the fold-out label. See example label 6.6
18 below.

19 To use the space on the **outer packaging** for the label elements defined under CLP
20 Article 17 can be an option where it contains many units of packages that are too
21 small or difficult to label because of their form/shape. In such cases the requirements
22 that normally apply to labels, see CLP Articles 31 and 32, will also apply to the label
23 area on the outer packaging. The label on any inner or intermediate packaging shall
24 then contain at least the hazard pictograms, the product identifier(s) referred to in
25 CLP Article 18 and the name and telephone number of the supplier of the substance
26 or mixture, see section 1.5.1.2. of Annex I to CLP

27 When the outer packaging option is used, a distributor or retailer has to take care that
28 all the label elements required by CLP are available when he decides to sell the units
29 individually afterwards. In this case it may be worthwhile to check whether he is
30 allowed to apply the small packaging exemptions referred to in CLP Article 29(2), see
31 [section 5.3.2](#) below.

32

33 5.3.2 Omission of certain label elements

34 If the full labelling information cannot be provided in any of the ways presented in the
35 preceding section, namely where

- 36 • the packaging is so small or in such (awkward) shape or form that it is impossible
37 to meet the requirements of Article 31 for a label in the languages of the Member
38 State where the substance or mixture is placed on the market, and where
- 39 • the labelling information can neither be provided in fold-out labels, on tie-on tags
40 or on an outer packaging, e.g. in case of soluble packaging,

41 CLP Article 29(2) allows the supplier to **reduce** the information on the label that
42 would normally be required according to CLP Article 17.

43

44 5.3.2.1 Exemptions where the contents do not exceed 125 ml

45 The first type of exemptions relates to packages where the contents do not exceed
46 125 ml. The label elements related to the hazard classes and categories listed in
47 column 2 of Table 7 below may be omitted from the label where the substance or
48 mixture is classified for these hazard classes or categories. However, where the
49 substance or mixture is classified under further hazard classes not listed, the label

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 elements related to these other hazard classes still need to be included.

2

3 **Table 7:** Labelling exemptions for packages of a capacity of 125 ml or less

Hazard classification of the substance or mixture	Allowed omissions according to section 1.5.2 of Annex I to CLP
Oxidising gases cat. 1 Gases under pressure Flammable liquids cat. 2 or 3 Flammable solids cat. 1 or 2 Self-reactive substances and mixtures, types CDEF Self-heating substances and mixtures, cat. 2 Substances and mixtures which, in contact with water, emit flammable gases, cat. 1, 2 or 3 Oxidising liquids cat. 2 or 3 Oxidising solids cat. 2 or 3 Organic peroxides, types CDEF Acute toxicity cat. 4 (no supply to general public) Skin irritants cat. 2 Eye irritants cat. 2 STOT-SE 2 or 3 (no supply to general public) STOT-RE 2 (no supply to general public) Aquatic acute cat. 1 Aquatic chronic cat. 1 or 2	hazard and precautionary statements for the hazard classes mentioned in column 1 <u>comment:</u> the hazard pictograms are required for the denoted hazards
Flammable gases cat.2 Effects on or via lactation Aquatic chronic cat. 3 or 4	precautionary statements linked to the hazard classes in column 1 <u>comment:</u> the hazard statements should be provided as no hazard pictogram is required for the denoted hazards
Corrosive to metals	hazard pictogram, hazard and precautionary statements for this hazard class

4

5

6 5.3.2.2 Exemptions for specific cases

7 Further to the volume-related small and awkward packaging exemptions set out
 8 above, CLP specifies cases where similar exemptions from the labelling and
 9 packaging requirements apply:

10 Small packages of aerosols: similar to DSD, CLP stipulates that the exemptions for
 11 labelling of small packages of aerosols as flammable laid down in the Annex to
 12 Directive 75/324/EEC ¹¹ shall apply fully to aerosol dispensers.

13 Soluble packaging: another exemption defined under CLP applies to soluble

¹¹ Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers, as amended by Commission Directive 94/1/EC and Commission Directive 2008/47/EC

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 packaging which does not exceed a volume of 25 ml: all CLP label elements required
2 by CLP Article 17 may be omitted from soluble packaging provided it is intended for
3 single use and it is contained within outer packaging that contains all label elements
4 required under CLP. The exemption applies in cases where the substance or mixture
5 contained is classified exclusively for one or more of the hazards listed in column 2 of
6 **Table 7** above. However, this exemption does not apply to substances and mixtures
7 within the scope of Regulation (EC) No 1107/2009 (plant protection products) or
8 Directive 98/8/EC (biocidal products).

9 Unpackaged hazardous substances and mixtures supplied to the general public: a
10 provision which is new under CLP relates to unpackaged hazardous substances and
11 mixtures supplied to the general public: labelling information about unpackaged
12 chemicals sold to the general public which are mentioned in Part 5 of Annex II to CLP
13 should be made available as (paper) copy, e.g. on an invoice or bill, see CLP Article
14 29(3). When the purchase of such substances or mixtures occurs at a different point
15 in time than their delivery to the customer, one might also consider to provide a
16 leaflet which contains the relevant labelling information when delivering the
17 substance or mixture, or to send the information by email. However, this concerns
18 currently only a few substances: ready mix cement and concrete in the wet state.

19 Environmental labelling: Similar to DSD, CLP includes the possibility to introduce
20 exemptions from environmental labelling for certain mixtures classified as hazardous
21 to the environment where it can be demonstrated that there would be a reduction in
22 the environmental impact, see CLP Article 29(4). However, no such exemptions have
23 to date been agreed; rather, any exemptions will need to be determined in
24 accordance with the 'comitology' procedure referred to in CLP Articles 53 and 54 and
25 would be defined in Part II of Annex II to CLP.

26 **5.4 Interaction between the CLP and the transport labelling rules**

27 The interaction between the supply & use labelling and the transport labelling was
28 previously regulated in Article 24(6) of Directive 92/32/EEC (i.e. in the 7th ATP to
29 DSD) for substances and in Article 11(6) of DPD for mixtures. In the CLP Regulation,
30 it is Article 33 which sets out specific rules for situations where the packaging of
31 hazardous substances and mixtures is required to meet also labelling provisions in
32 accordance with the rules on the transport of dangerous goods.

33 The transport labelling provisions are set out in the United Nations Model
34 Regulations on the Transport of Dangerous Goods (the so-called "Orange Book")
35 and are implemented in the EU through international modal agreements and
36 Directive 2008/68/EC for the inland transport of dangerous goods (road and rail).
37 Transport labelling as referred to in CLP Article 33 includes all labels and marks
38 required by e.g. Directive 2008/68/EC, e.g. the mark for environmentally hazardous
39 substances, elevated temperature marks or limited/exempted quantities marks.

40 A basic principle of CLP is not to override any labelling required by the transport rules
41 while maintaining essential hazard information on the relevant layer(s) of packaging.

42 **CLP labelling is normally required on every inner and intermediate layer of the**
43 **packaging of a substance or mixture; it *may* also appear on an outer**
44 **packaging. Transport labelling will have to appear on the outer packaging of**
45 **hazardous substances and mixtures if these are "dangerous goods" according**
46 **to the rules on the transport of dangerous goods. Single packages need to**
47 **carry both the CLP label elements and the transport labelling, except for the**

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 **CLP hazard pictograms where these are already covered by (an) equivalent**
2 **transport pictogram(s) reflecting the same hazard.**

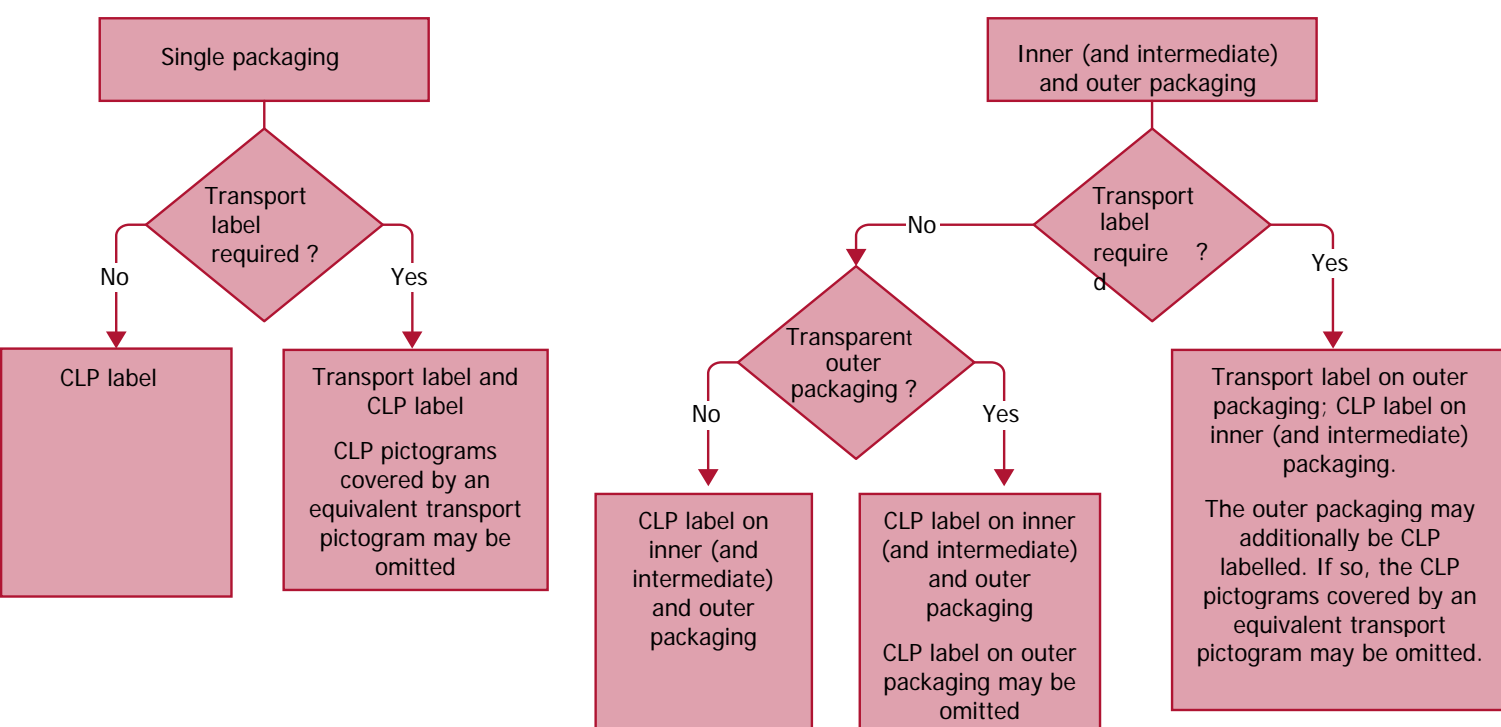
3 While CLP may not require outer packaging to carry the CLP label elements where
4 it already carries the corresponding transport labelling, a supplier *may choose* to
5 apply to the outer packaging those CLP label elements that are on the inner or
6 intermediate packaging. This option may need to be considered where the
7 substance or mixture is classified for a hazard that is not covered by the rules on the
8 transport of dangerous goods – e.g. for skin and eye irritation, CMR or for the aquatic
9 chronic hazards category 3 and 4. However, inclusion of CLP labelling on the outer
10 packaging is not obligatory in this case.

11 Where the outer packaging does not need to carry labelling in accordance with the
12 rules on the transport of dangerous goods, both the inner/ intermediate and the outer
13 packaging should display the CLP labelling elements. Where the outer packaging is
14 transparent, all CLP label elements can be omitted from it where the CLP label
15 beneath the transparent layer is clearly visible.

16 The assumption underlying the provisions of CLP Article 33(2) is that only one
17 substance or mixture is contained in single or combined outer packaging. Therefore,
18 in cases where the rules on the transport of dangerous goods do not apply and
19 where **more than one** substance or mixture with different hazard classifications are
20 packed together in the same outer packaging then the rules of CLP Article 33(2)
21 should be applied with care: where the outer packaging carries different labels which
22 relate to different packaged substances or mixtures, then the whole set of individual
23 labels on the outer packaging may not provide coherent hazard information and
24 safety advice, e.g. in case one substance is hazardous to the aquatic environment,
25 the other is a carcinogen, the third one is flammable and the last one is a non-
26 hazardous mixture.

27 The legal requirements of CLP Article 33 and the decisions involved when dealing
28 with them are depicted in the following figure:

29



Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

- 1 **Figure 3:** Decision flowchart for the application of CLP and transport labelling for single
- 2 packaging (left) and combination packaging (right)

1 6. EXAMPLE LABELS

2 A number of examples are provided below to illustrate different and challenging
3 situations that may be encountered when designing labels. Various aspects treated
4 in this guidance document are incorporated; they will be discussed in the light of the
5 overall label lay-out. Nevertheless, the example labels provided below should only
6 illustrate the possible lay-out, but do not necessarily reflect the actual size.

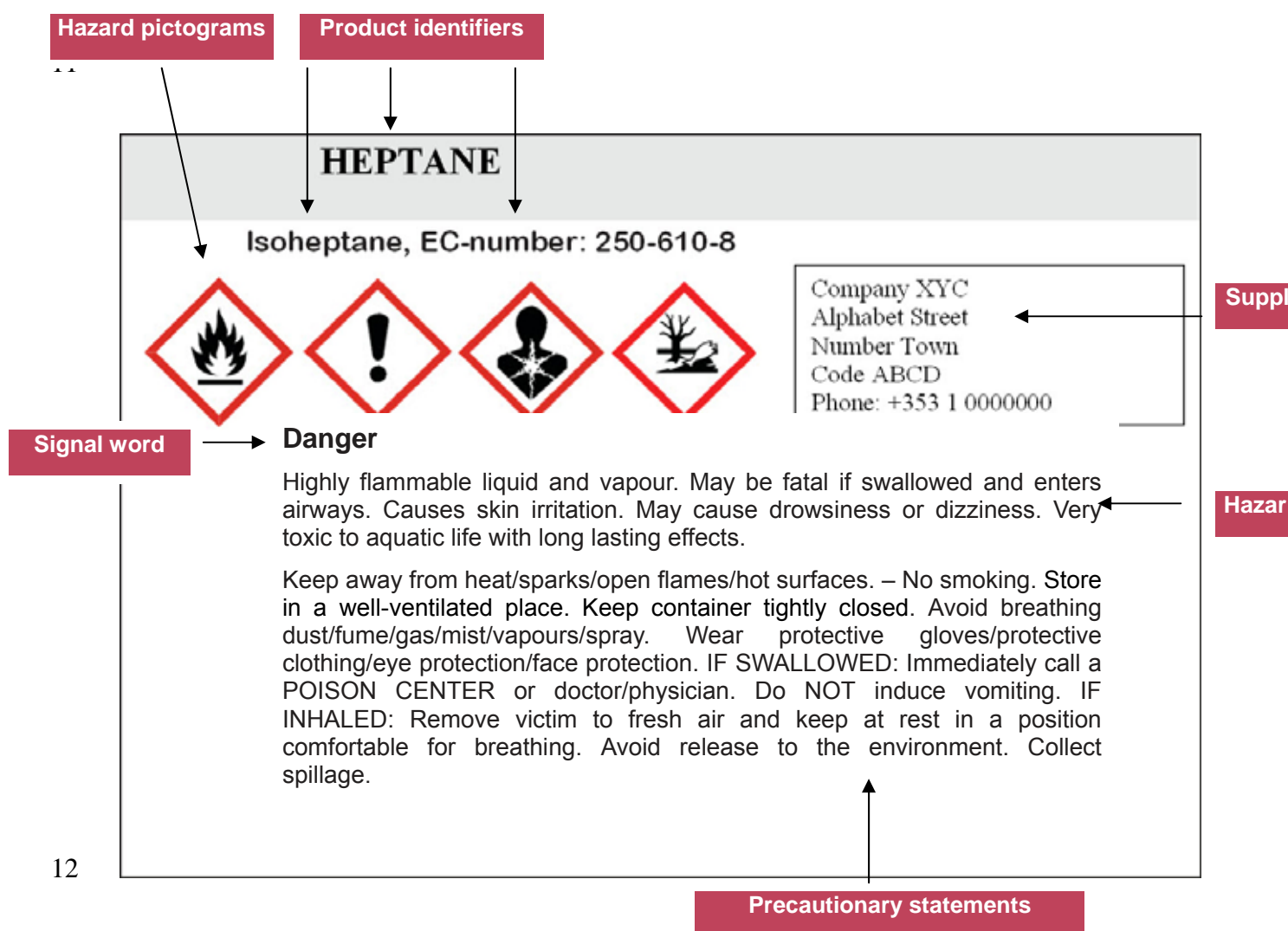
7 **Please note that each of the example labels below is only an example of how to**
8 **arrange a label for a given situation. The arrangements shown are not**
9 **exhaustive or mandatory in all aspects, and the sizes shown are not**
10 **necessarily the actual sizes.**

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 6.1 Single language label of a substance for supply & use

2 Example label 6.1 represents a simple supply & use label which takes into account
3 the CLP label elements only. It shows the CLP terminology and pictograms in
4 accordance with CLP Article 17(a) and (c) to (g), i.e. the product identifiers, the
5 identity of the supplier, the signal word, the hazard pictograms, the hazard and the
6 precautionary statements. As the substance is not supplied to the general public, the
7 nominal quantity of the substance contained in the package is not required on the
8 label.

9



12

1 **6.2 Multi-language label of a substance for supply & use containing non-**
2 **obligatory supplemental information**

3 Example label 6.2 represents a multi-language label for supply & use. It shows the
4 CLP terminology and pictograms in accordance with CLP Article 17(a) and (c) to (h),
5 i.e. the product identifier, the identity of the supplier, the hazard pictograms, the
6 signal words and the hazard and precautionary statements in four languages. As the
7 substance is not supplied to the general public, the nominal quantity of the substance
8 contained in the package is not required on the label. In accordance with CLP Article
9 32(3), the hazard and precautionary statements of one language are located together
10 on the label. A section for supplemental labelling is included on the left-hand side of
11 the label including non-obligatory supplemental labelling information.

12 As to the lay-out, label 6.2 is an authentic label designed for a 2.5 litre bottle. Its real
13 dimensions are significantly larger than depicted here. Based on the minimum
14 dimensions for the label area, which would be at least 52 mm x 74 mm, the size of
15 each of the pictograms is supposed to be at least 257 mm², corresponding to a side
16 length of 16 mm, on the real label, see [section 4.3](#) above.

17 In case the section for supplemental labelling is increased, e.g. in order to
18 incorporate information related to the use of the substance, the overall area of the
19 label and the size of its elements may have to be increased as well, in particular the
20 letter size of the signal words, hazard and precautionary statements. This would
21 warrant the legibility of the obligatory label information which appears in multiple
22 languages. In this case it may be wise also to increase the size of the pictograms.

23

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

Signal word

Hazard pictograms

Product identifiers

Section for supplemental labelling information (non-obligatory)

UN 1230

IMD: METHANOL
ICAO: METHANOL

Danger. Highly flammable liquid and vapour. Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed. Causes damage to organs. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. IF exposed: Call a POISON CENTER or doctor/physician.

Gefahr. Flüssigkeit und Dampf leicht entzündbar. Giftig bei Einatmen. Giftig bei Hautkontakt. Giftig bei Verschlucken. Schädigt die Organe. Von Hitze/Funken/offener Flamme/heißen Oberflächen fernhalten. Nicht rauchen. Behälter dicht verschlossen halten. Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz tragen. BEI KONTAKT MIT DER HAUT: Mit viel Wasser und Seife waschen. BEI Exposition: GIFTINFORMATIONSZENTRUM oder Arzt anrufen.

Danger. Liquide et vapeurs très inflammables. Toxique par inhalation. Toxique par contact cutané. Toxique en cas d'ingestion. Risque avéré d'effets graves pour les organes. Tenir à l'écart de la chaleur/des étincelles/des flammes nues/des surfaces chaudes. – Ne pas fumer. Maintenir le récipient fermé de manière étanche. Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage. EN CAS DE CONTACT AVEC LA PEAU: laver abondamment à l'eau et au savon. EN CAS d'exposition: appeler un CENTRE ANTIPOISON ou un médecin.

Pericolo. Liquido e vapori facilmente infiammabili. Tossico se inalato. Tossico per contatto per la pelle. Tossico se ingerito. Provoca danni agli organi. Tenere lontano da fonti di calore/scintille/fiamme libere/superfici riscaldate. – Non fumare. Tenere il recipiente ben chiuso. Indossa guanti/indumenti protettivi/Proteggere gli occhi/il viso. IN CASO DI CONTATTO CON LA PELLE: lavare abbondantemente con acqua e sapone. IN CASO di esposizione, contattare un CENTRO ANTIVELENI o un medico.

Reag. Ph Eur
Methanol
gradient grade for liquid chromatography
Méthanol
Alcole metilico

Index-No: 603-001-00-X
Musierrmann GmbH
98765 Sampleshausen, Germany
Tel. +49(0)2345 67 89 01
www.musierrmann.de

Property	Value	Unit	Conforms
Chemical formula	CH ₃ OH		
Relative density	0.7918	kg/dm ³	
Boiling point	64.5	°C	
Flash point	11	°C	
Acidity	0.0002	mol/kg	
Optical density	0.0002	at 220 nm	
Optical density	0.0002	at 235 nm	
Optical density	0.0002	at 254 nm	
Optical density	0.0002	at 260 nm	
Optical density	0.0002	at 270 nm	
Optical density	0.0002	at 280 nm	
Optical density	0.0002	at 290 nm	
Optical density	0.0002	at 300 nm	
Optical density	0.0002	at 310 nm	
Optical density	0.0002	at 320 nm	
Optical density	0.0002	at 330 nm	
Optical density	0.0002	at 340 nm	
Optical density	0.0002	at 350 nm	
Optical density	0.0002	at 360 nm	
Optical density	0.0002	at 370 nm	
Optical density	0.0002	at 380 nm	
Optical density	0.0002	at 390 nm	
Optical density	0.0002	at 400 nm	
Optical density	0.0002	at 410 nm	
Optical density	0.0002	at 420 nm	
Optical density	0.0002	at 430 nm	
Optical density	0.0002	at 440 nm	
Optical density	0.0002	at 450 nm	
Optical density	0.0002	at 460 nm	
Optical density	0.0002	at 470 nm	
Optical density	0.0002	at 480 nm	
Optical density	0.0002	at 490 nm	
Optical density	0.0002	at 500 nm	
Optical density	0.0002	at 510 nm	
Optical density	0.0002	at 520 nm	
Optical density	0.0002	at 530 nm	
Optical density	0.0002	at 540 nm	
Optical density	0.0002	at 550 nm	
Optical density	0.0002	at 560 nm	
Optical density	0.0002	at 570 nm	
Optical density	0.0002	at 580 nm	
Optical density	0.0002	at 590 nm	
Optical density	0.0002	at 600 nm	
Optical density	0.0002	at 610 nm	
Optical density	0.0002	at 620 nm	
Optical density	0.0002	at 630 nm	
Optical density	0.0002	at 640 nm	
Optical density	0.0002	at 650 nm	
Optical density	0.0002	at 660 nm	
Optical density	0.0002	at 670 nm	
Optical density	0.0002	at 680 nm	
Optical density	0.0002	at 690 nm	
Optical density	0.0002	at 700 nm	
Optical density	0.0002	at 710 nm	
Optical density	0.0002	at 720 nm	
Optical density	0.0002	at 730 nm	
Optical density	0.0002	at 740 nm	
Optical density	0.0002	at 750 nm	
Optical density	0.0002	at 760 nm	
Optical density	0.0002	at 770 nm	
Optical density	0.0002	at 780 nm	
Optical density	0.0002	at 790 nm	
Optical density	0.0002	at 800 nm	
Optical density	0.0002	at 810 nm	
Optical density	0.0002	at 820 nm	
Optical density	0.0002	at 830 nm	
Optical density	0.0002	at 840 nm	
Optical density	0.0002	at 850 nm	
Optical density	0.0002	at 860 nm	
Optical density	0.0002	at 870 nm	
Optical density	0.0002	at 880 nm	
Optical density	0.0002	at 890 nm	
Optical density	0.0002	at 900 nm	
Optical density	0.0002	at 910 nm	
Optical density	0.0002	at 920 nm	
Optical density	0.0002	at 930 nm	
Optical density	0.0002	at 940 nm	
Optical density	0.0002	at 950 nm	
Optical density	0.0002	at 960 nm	
Optical density	0.0002	at 970 nm	
Optical density	0.0002	at 980 nm	
Optical density	0.0002	at 990 nm	
Optical density	0.0002	at 1000 nm	

Hazard & precautionary statements, grouped by language

Supplier identity

1 **6.3 Single language label of a mixture for supply & use**
2 **containing both obligatory and non-obligatory supplemental**
3 **information**

4 Example label 6.3 illustrates the use of a supply & use label for a typical consumer
5 product (detergent). All obligatory labelling information is shown, i.e. the product
6 identifiers (trade name and designation of the mixture; one of them would have been
7 sufficient), the identity of the supplier, the signal word, the hazard and precautionary
8 statements and the obligatory supplemental information, in accordance with
9 Regulation (EC) No 648/2004 on detergents. As the product is supplied to the
10 general public, its nominal quantity is also provided on the label. Beyond the
11 obligatory supplemental information, also some non-obligatory supplemental
12 information is shown.

13 This label clearly separates the obligatory information as required by CLP and other
14 Community legislation from the non-obligatory elements. The former is delineated by
15 two text boxes, with the “CLP box” being located in a central, eye-catching position
16 on the label. The non-obligatory label elements can be found in the lower part of the
17 label and in the upper part, under the headline “instructions for use”.

18 Example label 6.3 as depicted here has a real size of 165 mm x 72 mm; the area of
19 the label that contains the obligatory label elements, i.e. the two boxes and the
20 nominal quantity, is about 98 mm x 72 mm. In principle the area covered by the text
21 block “For further information visit ...” must be subtracted; on the other hand,
22 approximately the same area covered by the line “trade name” should be added, so
23 there is overall no change.

24 Example label 6.3 is larger than the minimum dimensions required by CLP, which is
25 at least 52 mm x 74 mm for a 500 ml bottle. The pictogram is larger than the
26 requested minimum area of 1 cm².

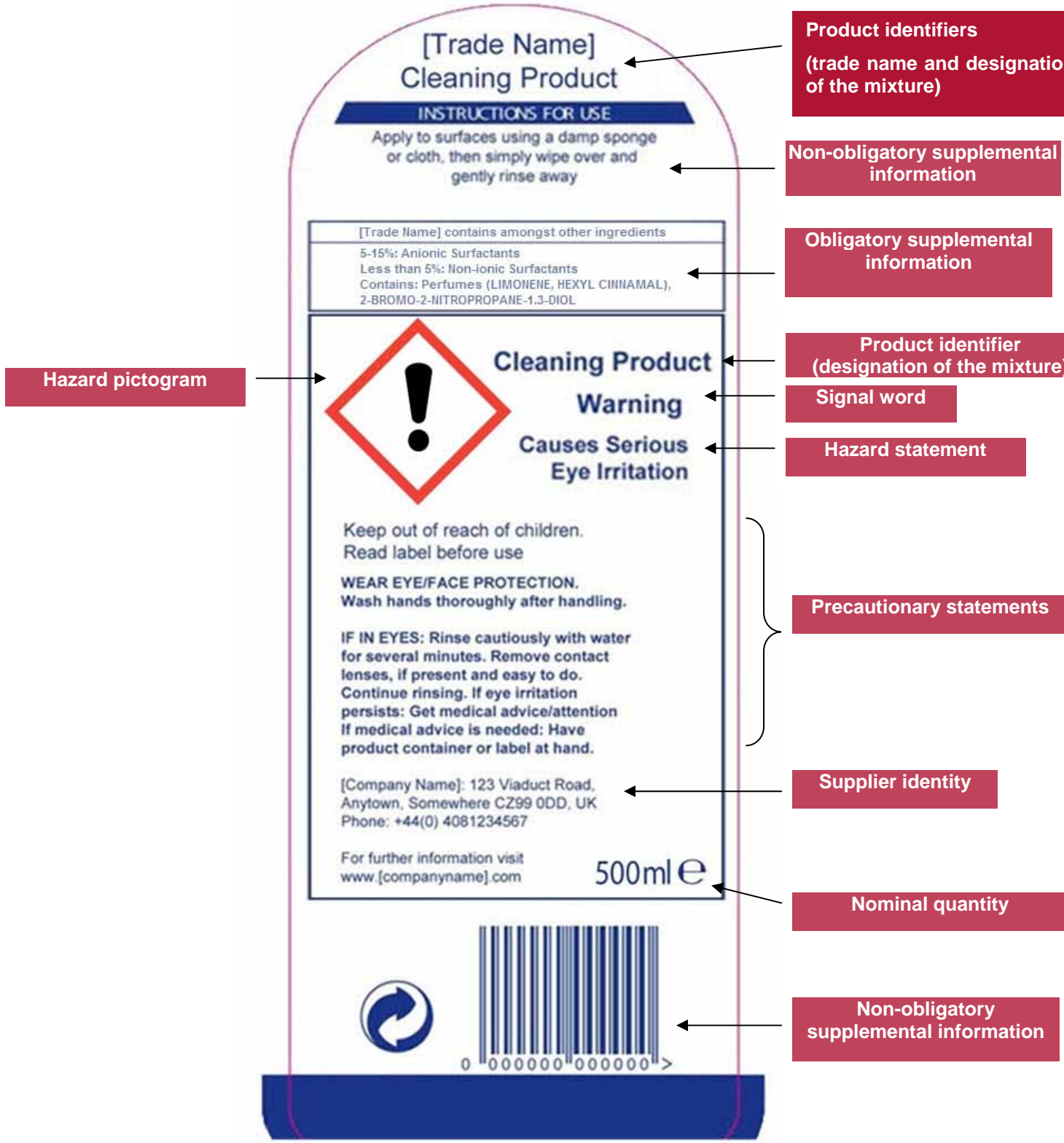
27 The label shown is primarily drafted for inner packaging. If the chemical is contained
28 in combination (= inner + outer) packaging, the same information should be shown
29 on the outer packaging, unless the information on the inner packaging can be seen
30 through the outer packaging.

31

32

33

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

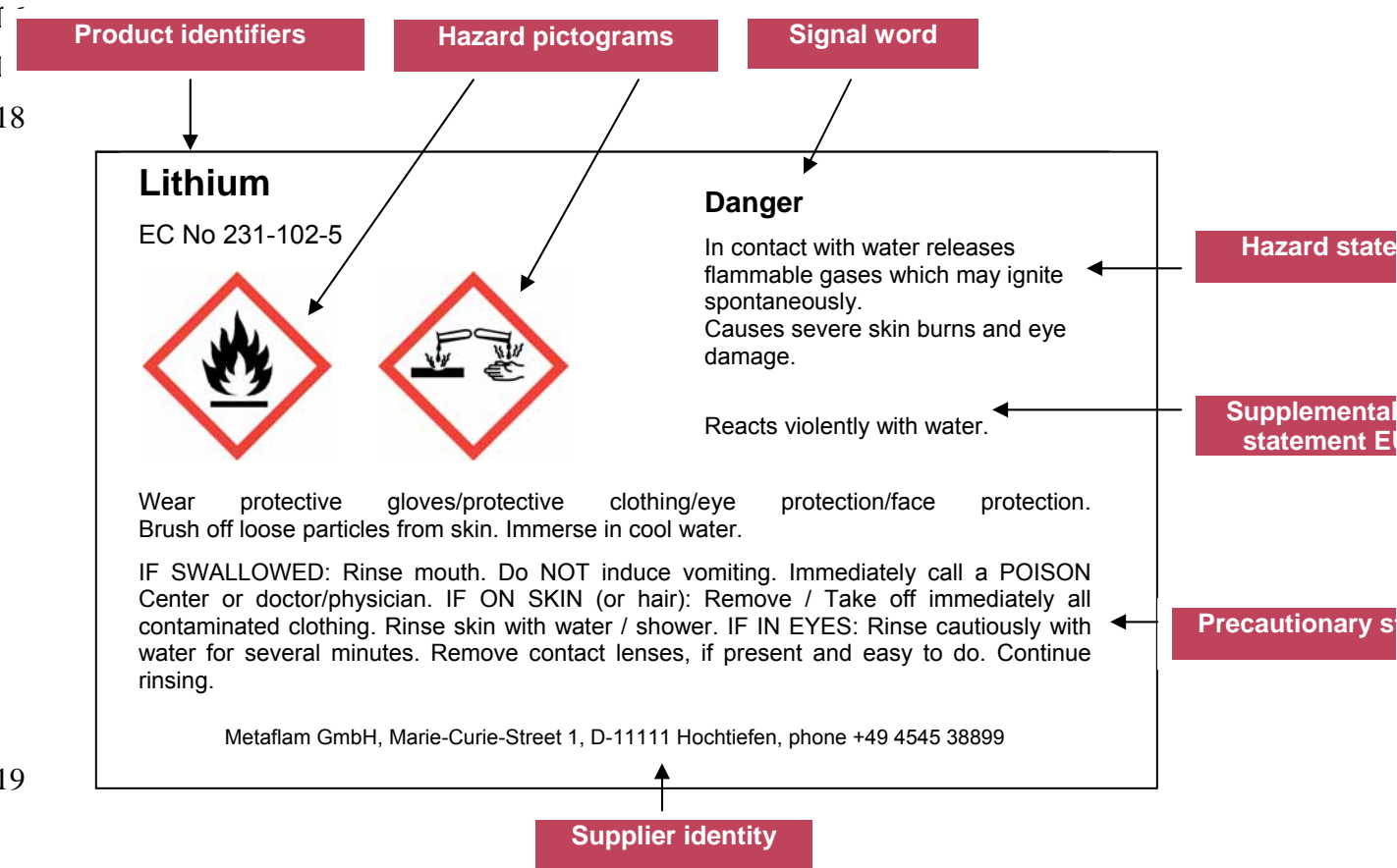


1 **6.4 Single language label of a substance for supply & use containing**
2 **supplemental hazard statements**

3 Example label 6.4 illustrates a supply & use label for the substance lithium (EC No
4 231-102-5). A harmonised classification (water-reactive cat. 1, skin corrosive cat. 1B)
5 as well as the supplemental hazard statement EUH014 are assigned through Annex
6 VI to CLP, while additional hazards are not found. The substance is not intended to
7 be used by the general public; it is supplied in a 1 l package.

8 All obligatory labelling information is shown, i.e. the product identifiers, the identity of
9 the supplier, the hazard pictograms, the signal word, the hazard and precautionary
10 statements and the supplemental hazard statement EUH014, in accordance with
11 Table 3.1 of Annex VI to CLP. Although EUH014 is supposed to be supplemental
12 information only, it is placed by intention closely to the regular CLP hazard
13 statements, so as to reinforce the message provided by the latter.

14
15



19

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 **6.5 Multi-language label of a mixture for supply & use containing both** 2 **obligatory and non-obligatory supplemental information**

3 Example label 6.5 represents the draft of a multi-language supply & use label for a
4 typical consumer chemical (decorative paint). All obligatory labelling information is
5 shown, i.e. the product identifiers, the identity of the supplier, the signal word, the
6 hazard and precautionary statements and the obligatory supplemental information, in
7 particular information in accordance with the VOC Directive 2004/42/EC on the
8 limitation of emissions of volatile organic compounds (VOC) due to the use of organic
9 solvents in certain paints and varnishes and vehicle refinishing products. In
10 accordance with CLP Article 32(3), the hazard and precautionary statements of one
11 language are located together on the label. As the chemical is supplied to the general
12 public, its nominal quantity is also provided on the label. Beyond the obligatory label
13 elements, non-obligatory supplemental information is shown.

14 This example label separates the CLP label elements from the supplemental
15 information by locating the former in a more eye-catching position on the label while
16 the supplemental information can be found rather in the margins of the label. The
17 texts reflecting the supplemental information appear in slightly smaller letters than the
18 CLP label elements.

19 The size of this label is intended to be 125 mm x 150 mm when applied on the
20 packaging. This means that the real label will be considerably larger than the
21 minimum dimensions for a 1 l package (52 x 74 mm) required under CLP. The
22 pictogram size of 19 x 19 mm is less than 1/15th of the whole label, but greater than
23 1/15th of the minimum dimensions.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1
2
3
4

Product identifier

Hazard pictogram

PAINTCO SATIN WHITE Product code 123456

Krasvaste zijdeglanslack - Couche de finition satinée résistante à l'abrasion - Scratch-resistant satin finish

Hazard Pictogram: Flammable liquid (F+)

Contact Information:
 NL: X Straat, 9999 YZ Stad, Tel. 0111-222333 www.paintco.nl
 BE: Rue Y, B-9999 Ville, Tel. 045-678910 www.paintco.be
 GB: Z Street, Town XY99 9YZ, Tel. 012-345678 www.paintco.co.uk

Warnings:
Waarschuwing. Ontvlambare vloeistof en damp. Buiten het bereik van kinderen houden. Verwijderd houden van warmte/vonken/open vuur/hete oppervlaken. - Niet roken. Inhoud/verpakking afvoeren naar een inzameelpunt bij de gemeente. Bij het inwinnen van medisch advies, de verpakking of het etiket ter beschikking houden.
Attention. Liquide et vapeurs inflammables. Tenir hors de portée des enfants. Tenir à l'écart de la chaleur/des étincelles/des flammes nues/des surfaces chaudes. - Ne pas fumer. Éliminer le contenu/récipient au point de collecte municipale. En cas de consultation d'un médecin, garder à disposition le récipient ou l'étiquette.
Warning. Flammable liquid and vapour. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Dispose of contents/container at the municipal collection point. If medical advice is needed, have product container or label at hand.

VOC Information:
 EU grenswaarde voor dit product (cat.A/d): 300 g/l. Dit product bevat maximaal 300 g/l VOS.
 Valeur limite en UE pour ce produit (cat.A/d): 300 g/l. Ce produit contient au maximum 300 g/l COV.
 EU limit for this product is (cat.A/d): 300 g/l. This product contains max 300 g/l VOC.

Additional Symbols: Recycling symbol, EWC: 08 111, Nominal volume: 1L

Non-obligatory information

Supplier

Signal word and pre-statement language

Nominal

Obligatory supplemental information according to the VOC Directive

Non-obligatory supplemental information

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 6.6 Single language label of a plant protection product for supply & use 2 in form of a fold-out booklet

3 Example label 6.6 illustrates the use of a fold-out label for supply & use of a plant
4 protection product which is classified as skin irritant. The product is supplied to
5 professional users (farmers) only, but not to the general public.

6 The actual size of the label is larger than depicted here. However, as the total
7 amount of the obligatory and non-obligatory labelling information would have required
8 a label that is too large for the package (capacity of the bottle is
9 1 l), **a fold-out label is used where parts can be removed from the packaging as
10 a standalone booklet.** The outer page is coated; the information on the outer page
11 will remain on the package after removal of the inner pages of the fold-out label.

12 The space on the outer, coated page of the fold-out label is limited; it contains the
13 name and telephone number of the supplier, the product identifier according to CLP
14 Article 18(3), i.e. the designation of the mixture, and the applicable hazard pictogram.
15 Beyond, it also displays further label elements that are considered relevant by the
16 supplier, i.e. the signal word, the hazard and precautionary statement, as well as
17 supplemental information which is normally required for the label of a plant protection
18 product, i.e. the concentration of the active substance contained, the field of
19 application, and the statements EUH401, SP1 and SPe3. However, as the space on
20 the outer, coated page is limited, further labelling elements in accordance with
21 Article 16(1) (l), (m) and (n) of Directive 91/414/EEC are placed on the inner,
22 detachable part of the fold-out label (not shown).

23 Example label 6.6 is an example of how the requirements of CLP Article 25(3) in
24 relation to the non-obligatory labelling information, i.e. the supplemental icons and
25 the instructions and conditions for use, can be fulfilled. The obligatory label elements
26 are visibly separated from the non-obligatory labelling information: the latter is either
27 put in a different place on the label (supplemental icons) or also presented by
28 different means, i.e. a removable booklet (inner pages of the fold-out label) for the
29 non-obligatory instructions and conditions of use and remaining obligatory
30 supplemental label elements which do not appear on the outer page for space
31 reasons.

32 In the case of example label 6.6, a clear separation between the CLP labelling
33 elements set out under CLP Article 17(1)(a)-(g) and the supplemental, yet obligatory,
34 information requested by Directive 91/414/EEC was not performed: as the latter
35 supports the safe handling and use of a substance or mixture according to
36 harmonised Community rules, it was decided to have both types of obligatory
37 labelling information visibly on an equal footing on the label, except for those
38 elements which were put on the inner pages of the fold-out label because of space
39 constraints.

40 The label shown is primarily drafted for inner packaging which cannot be seen
41 through the outer packaging.

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

Product identifier and supplier identity



Non-obligatory supplemental icons

Supplemental information which is obligatory under Directive 91/414/EEC

Example Product

Emergency phone number: 012 345 6542

Contains 480g/l (40.3%) triethylweedkiller as diammonium salt
Authorisation number: 1234567-9
For weeding in corn (0.6l/ha), against broadleaf perennials (1 l/ha) and for the clearing of fallow land (0.6l/ha)

Warning
Causes serious eye irritation
Wear protective gloves and eye/face protection
To protect aquatic organisms, respect an unsprayed bufferzone of 5m to non-agricultural land/surface water bodies
Do not contaminate water with the product or its container
To avoid risks to human health and the environment, comply with the instructions for use
For other conditions of use and precautions, carefully read this booklet

Ref. 13246 | Cont. 1 litre

Fold-out booklet, removable by tearing off the cover, containing detailed instructions and conditions of use for the plant protection product (obligatory and non-obligatory supplemental information)

CLP pictogram, signal word, hazard and precautionary statements

Supplemental information for the active substance contained in the plant protection product, obligatory under Directive 91/414/EEC

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 6.7 Packaging that is small or difficult to label

2 The example labels in this section are authentic; they are applied on inner packaging
3 only because the package is transported in larger consignments with specific outside
4 labelling in accordance with the rules on the transport of dangerous goods.

5

6 6.7.1 n-Hexane in a 25 ml bottle

7 Example label 6.7.1 represents a two-language label in Swedish and Finnish for
8 small packaging for the substance n-hexane. Both languages are required in Finland.
9 According to Annex VI to CLP, the substance is assigned the following
10 classifications:

11 flammable liquids cat. 2, reproductive toxicity cat. 2, aspiration toxicity cat. 1,
12 STOT-RE cat. 2, skin irritation cat. 2, STOT-SE cat. 3, aquatic chronic hazard
13 cat. 2.

14 In accordance with the small packaging exemptions outlined in section 1.5.2 of
15 Annex I to CLP, the hazard and precautionary statements pertaining to the hazards

16 flammable liquids cat. 2, STOT-RE cat. 2, skin irritation cat. 2, STOT-SE cat.
17 3 and aquatic chronic hazard cat. 2

18 may be omitted from the label. However, and in line with CLP, the hazard pictograms
19 GHS02, GHS07, GHS08, GHS09 were retained for these hazards.

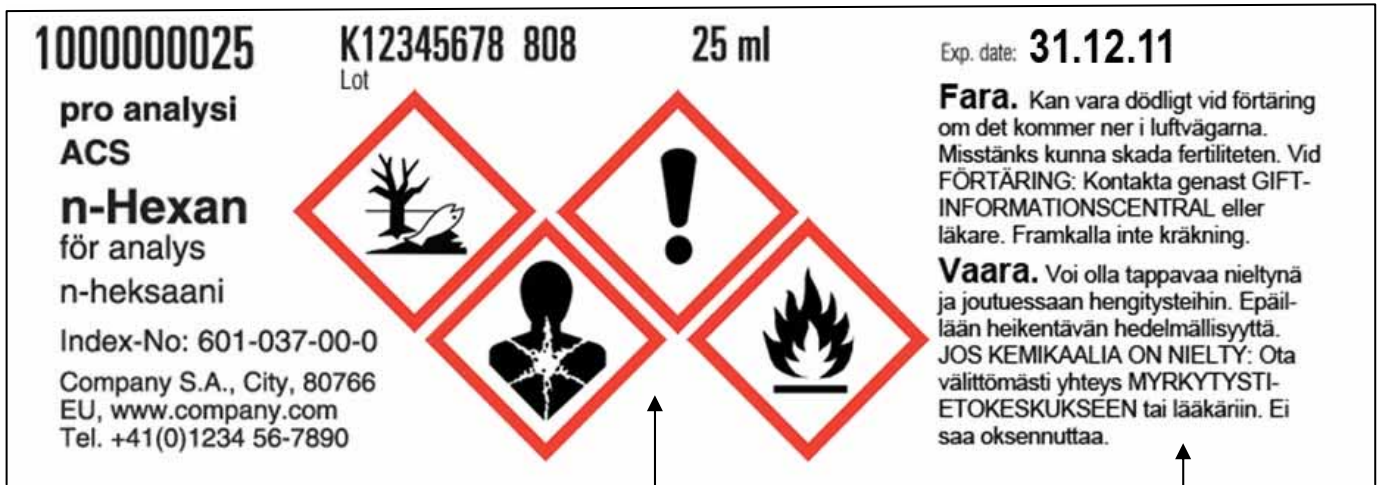
20 No small packaging exemptions apply for the hazards reproductive toxicity cat. 2 and
21 aspiration toxicity cat. 1. This means that the pictograms and the hazard and
22 precautionary statements pertaining to these hazard classes have been retained (in
23 Swedish and Finnish, see the language tables in Annex III and IV to CLP).

24 The precautionary statements have obviously been reduced, following CLP Article 22
25 and 28. For example, P501 (Dispose of contents/container to ...) was omitted,
26 probably because the substance is neither supplied to the general public nor are
27 there specific disposal requirements above the normal expectation for the disposal of
28 chemicals, see also [section 7](#). Out of a set of originally 20 different precautionary
29 statements, finally only one single (combination) statement, namely
30 P301+P310+P331 (If swallowed: Immediately call a poison centre or
31 doctor/physician. Do NOT induce vomiting.) remains for the label.

32 In accordance with CLP Article 32(3), the hazard statements of one language as well
33 as the precautionary statements, respectively, are located together on the label.

34 Finally, the signal word "Danger" (Swedish: Fara; Finnish: Vaara) was selected, in
35 line with the applicable precedence rule.

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



No omissions, but full range of hazard pictograms

Small packaging exemptions: reduced set of hazard and precautionary statements, grouped together on the label by language.

The real dimensions of the label are 32 x 95 mm. It can accommodate four pictograms of the required minimum size of 1 cm². This may not always be possible for even smaller packaging volumes, e.g. a bottle volume of 10 ml, see below. In order to maintain the required minimum size of 1 cm² for the hazard pictograms in such cases, either the size of the label or the volume of the bottle as such will have to be increased. It may not be warranted to reduce the letter size of the texts as this will very probably decrease their legibility.



Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 6.7.2 Hazardous solid substance in a 25 ml bottle

2 Example label 6.7.2 represents a one-language label for small packaging for a
3 fictitious solid substance which is assigned the following classifications:

4 oxidising solids cat. 2, carcinogenicity cat. 1B, mutagenicity cat. 1B,
5 reproductive toxicity cat. 1B, acute toxicity cat. 2, acute toxicity cat. 3, STOT-
6 RE cat. 1, acute toxicity cat. 4, skin corrosion cat. 1B, respiratory sensitisation
7 cat. 1, skin sensitisation, cat. 1, aquatic acute hazard cat.1, aquatic chronic
8 hazard cat. 1.

9 The substance is not presumed to be listed in Annex VI to CLP, nor in the
10 Classification and Labelling Inventory. Therefore, only the product identifiers referred
11 to in CLP Article 18(2)(c) need to be provided, i.e. the CAS number and the IUPAC or
12 international name. In accordance with the small packaging exemptions outlined in
13 section 1.5.2 of Annex I to CLP, only the hazard and precautionary statements
14 pertaining to the hazards

15 oxidising solids cat. 2, acute toxicity cat. 4, aquatic acute hazard cat.1, and
16 aquatic chronic hazard cat. 1

17 may be omitted from the label. This means that for all the other hazards listed above
18 all the label elements that are required under Title II of CLP should appear on the
19 label.

20 The precautionary statements on example label 6.7.2 start with “Obtain special
21 instructions before use.” A significant reduction has been performed for the
22 precautionary statements, based on Articles 22 and 28 of CLP. After application of
23 the small packaging exemptions and the selection of the most appropriate set of
24 precautionary statements, only five (combined) statements were chosen for the label,
25 out of about 30 precautionary statements.

26 In addition to the hazard and precautionary statements, five different hazard
27 pictograms are required for the label, namely GHS03, GHS05, GHS06, GHS08 and
28 GHS09.



29

Due to the severity of the hazards, substantial reduction of the hazard statements is not possible. The number of the precautionary statements, however, has been substantially reduced.

30

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 **6.8 Supply and transport label for a single package**

2 Example label 6.8 illustrates the provisions of CLP Article 33(3), it represents a label
3 for a hazardous mixture which is assigned the following classifications:

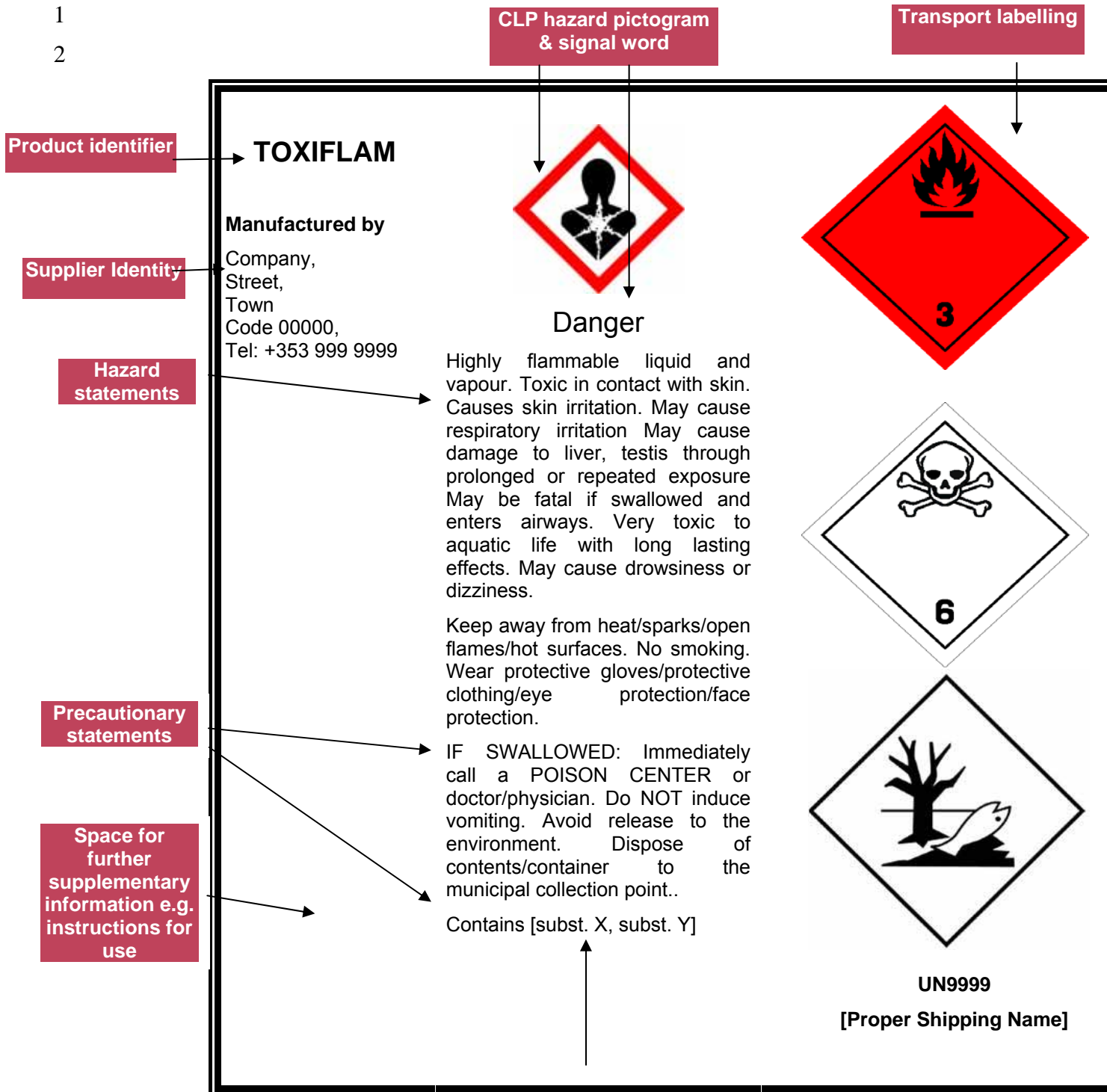
4 flammable liquid cat. 2, acute dermal toxicity cat. 3, skin irritation cat. 2,
5 STOT-SE cat. 3 (H335), STOT-SE cat. 3 (H336), STOT-RE,cat. 2, aspiration
6 toxicity cat. 1, aquatic acute hazard cat.1, aquatic chronic hazard cat. 1

7 The mixture is not intended to be used by the general public. It is intended to be
8 supplied in single packaging, such as a 200 litre drum. This means that both the CLP
9 and the transport label elements must be shown on the packaging.

10 In this case the labeller has chosen to include the transport label elements and marks
11 together with the CLP labelling elements on a common label that would be large
12 enough to fulfil the dimension requirements for the labels and marks set out in the
13 rules on the transport of dangerous goods (100mm x 100mm). In relation to the CLP
14 hazard pictograms GHS06 and GHS07, only GHS06 needs to be displayed, in
15 accordance with the precedence rule set out in CLP Article 26(1)(b). However, the
16 supplier has chosen to omit the CLP hazard pictogram GHS06 as well as GHS02as
17 the underlying hazards are already covered by the corresponding transport
18 pictograms.

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

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Product identifiers pertaining to substances that contribute to the classification of the mixture as acutely toxic, STOT-RE and toxic by aspiration

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

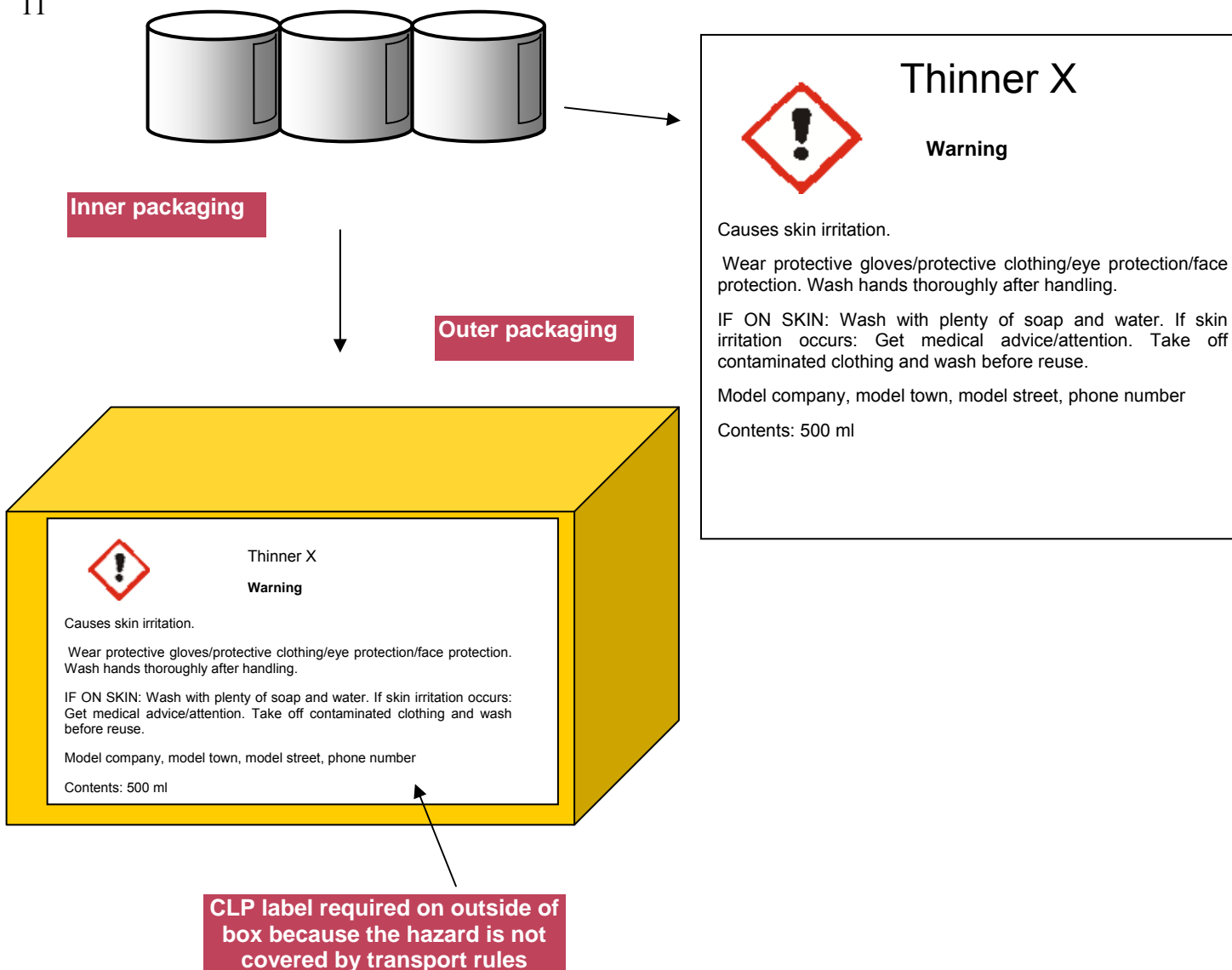
1 **6.9 Labelling of a chemical that is transported on land in combination**
2 **packaging**

3 Example label 6.9 illustrates the provisions of CLP Article 33(2). It is an example of a
4 mixture which is not classified and labelled in accordance with the rules on the
5 transport of dangerous goods, but under CLP. The chemical is transported on land
6 and is contained in an inner packaging (cans) which is itself contained in outer
7 packaging (box). This means that the same labelling information has to be provided
8 both on the inner packaging and on the outer packaging.

9 The mixture is not intended to be used by the general public.

10

11



**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

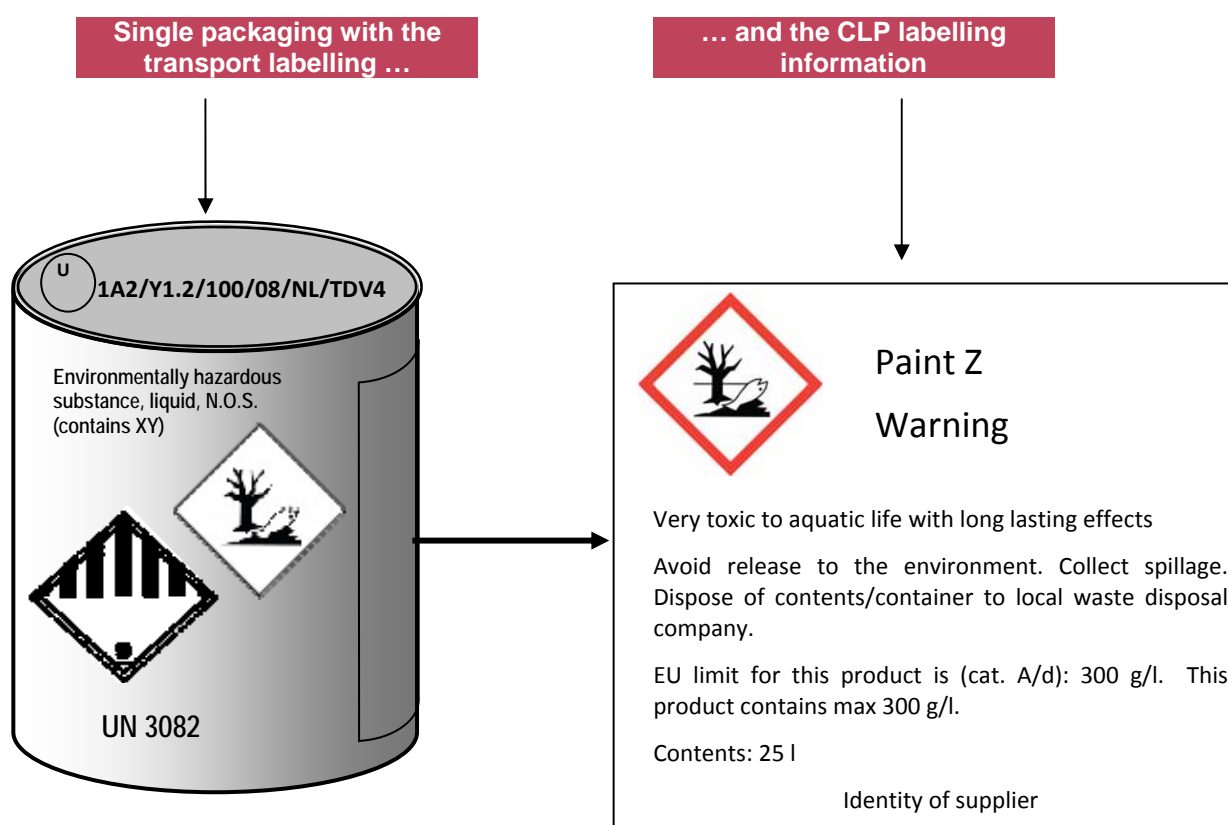
1 **6.10 Labelling of a chemical that is transported on land in single**
2 **packaging**

3 Example label 6.10 illustrates the provisions related to the labelling of single
4 packaging in accordance with CLP Article 33(3). It is an example of a chemical that is
5 classified and labelled in accordance with the rules on the transport of dangerous
6 goods and under CLP. The chemical is transported on land in single packaging (can).
7 It is not intended to be used by the general public.

8 In this example the full CLP labelling information is provided by means of a separate
9 label, in addition to the transport labelling information (version 1).

10 The CLP hazard pictogram may be omitted from the packaging because it relates to
11 the same hazards as the “dead tree – dead fish” transport mark (version 2).

12 Version 1:

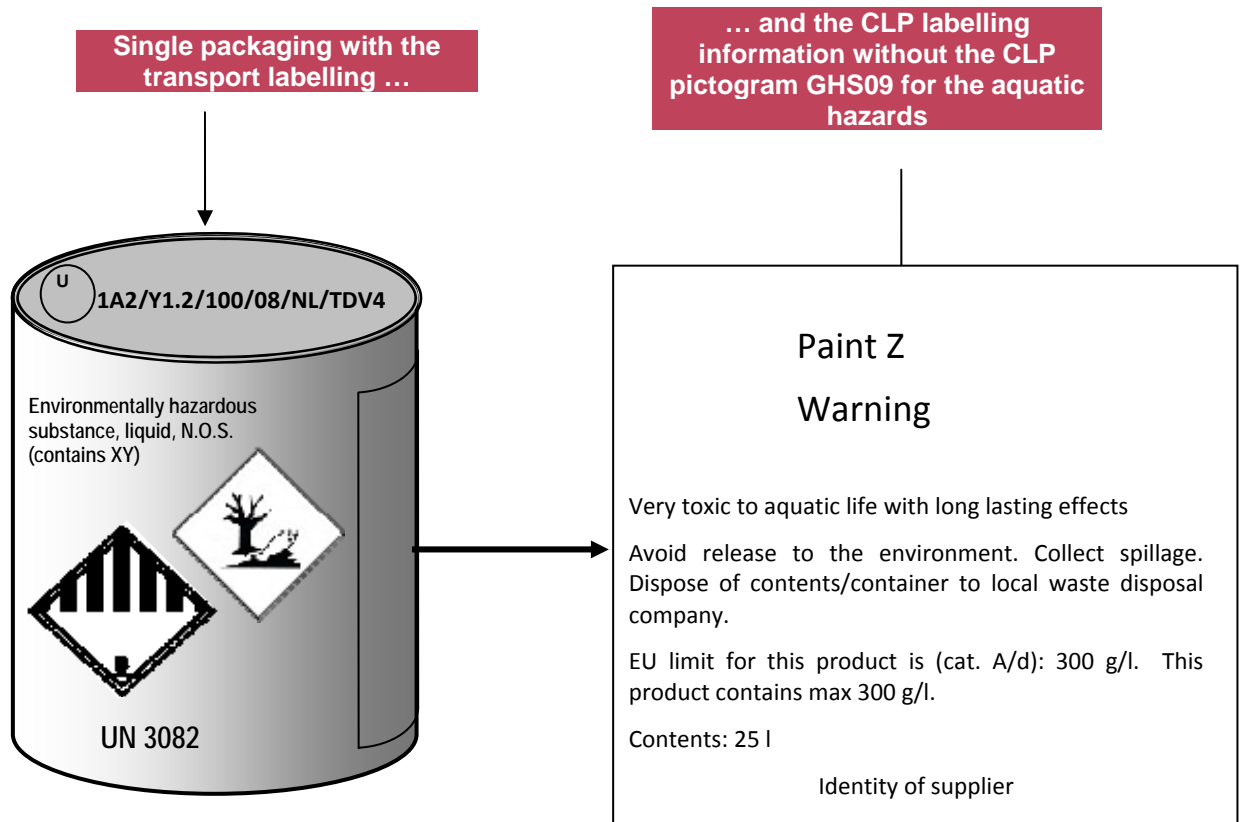


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**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

1 Version 2:



2

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 7. Guidance on the selection of precautionary statements for the 2 CLP hazard label

3 7.1 Introduction

4 Based on the UN GHS, the CLP Regulation assigns precautionary statements to all
5 hazard classes for the purpose of the safe supply and use of a substance or mixture.
6 Based on CLP Article 4, the following suppliers have to select precautionary
7 statements for the CLP hazard label:

- 8 • manufacturers or importers of substances,
- 9 • importers of mixtures;
- 10 • downstream users of substances or mixtures (including formulators),
- 11 • distributors (including retailers) of substances or mixtures, and
- 12 • producers or importers of explosive articles as defined in Part 2.1 of Annex I
13 to CLP

14 The selection of precautionary statements should be done based on CLP Articles 22
15 and 28 and CLP Annex IV:

Article 22

Precautionary statements

1. The label shall include the relevant precautionary statements.
2. The precautionary statements shall be selected from those set out in the tables in Parts 2 to 5 of Annex I indicating the label elements for each hazard class.
3. The precautionary statements shall be selected in accordance with the criteria laid down in Part 1 of Annex IV taking into account the hazard statements and the intended or identified use or uses of the substance or the mixture.
4. The precautionary statements shall be worded in accordance with Part 2 of Annex IV.

Article 28

Principles of precedence for precautionary statements

1. Where the selection of the precautionary statements results in certain precautionary statements being clearly redundant or unnecessary given the specific substance, mixture or packaging, such statements shall be omitted from the label.
2. Where the substance or mixture is supplied to the general public, one precautionary statement addressing the disposal of that substance or mixture as well as the disposal of packaging shall appear on the label, unless not required under Article 22. In all other cases, a precautionary statement addressing disposal shall not be required, where it is clear that the disposal of the substance or mixture or the packaging does not present a hazard to human health or the environment.
3. Not more than six precautionary statements shall appear on the label, unless necessary to reflect the nature and the severity of the hazards.

Annex IV

In selecting the precautionary statements in accordance with Articles 22 and 28(3), suppliers may combine the precautionary statements in the table [of Annex IV], having regard to clarity and comprehensibility of the precautionary advice. ...

16

17 While there were legally binding selection rules for the safety (S-) phrases under
18 Annex VI to the Dangerous Substances Directive 67/548/EEC (DSD), neither the UN

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 GHS nor the CLP Regulation currently provide for clear-cut rules on how to select
2 precautionary statements for the label, apart from the generic provisions set out in
3 CLP Articles 22 and 28 and the basic instructions specified in the columns containing
4 the conditions for use in tables 6.1-6.5 of Annex IV to CLP. On the other hand, the
5 number of precautionary statements under CLP / GHS has more than doubled when
6 compared to the number of S-phrases under DSD. In a situation where selection
7 rules are missing, an average hazardous substance listed in Annex VI to CLP could
8 easily be assigned more than 20 precautionary statements on the label, based on the
9 hazards of the substance, see also section 3.4 of this document. As CLP requires
10 that normally not more than six precautionary statements shall appear on the label, a
11 substantial reduction of the number of precautionary statements must be performed,
12 based on effective selection rules.

13 Overall positive experience has been made in the past decades with the use of the
14 S-phrases. The main characteristics of the S-phrase selection system as set out in
15 part 6 of Annex VI to DSD are

- 16 • the establishment of a hierarchy (order of precedence) between individual S-
17 phrases indicating that certain phrases may be omitted from the label in case
18 certain others are already assigned;
- 19 • a gradation between obligatory and recommended phrases to reflect a
20 particular hazard, taking into account the specific properties of the substance
21 (or mixture), the message already contained in the risk phrase, the intended
22 use(s) of the substance or mixture, practical experience and in some cases
23 also specific target groups;
- 24 • the combination of several S-phrases into one phrase only, e.g. S36/37 –
25 Wear suitable protective clothing and gloves.

26 7.2 Approach to guidance

27 In view of the positive experience made with the S-phrase selection system, it is
28 proposed to employ a comparable system for the selection of the precautionary
29 statements under CLP. This system should build on the generic provisions set out in
30 CLP Articles 22 and 28 and the basic instructions provided in the columns containing
31 the conditions for use in tables 6.1-6.5 of Annex IV to CLP and which are mentioned
32 directly under the precautionary statements in the selection tables below. In order to
33 establish such a system and to draw on past experience as much as possible, the
34 following approach was chosen:

- 35 • The S-phrases from DSD are assigned to the most closely corresponding
36 precautionary statements under CLP;
- 37 • The selection rules for the S-phrases as set out in Annex VI to DSD are
38 translated into conditions of use for the precautionary statements as far as
39 possible, on the basis of comparable underlying hazards and of similar
40 wording of the S-phrases and precautionary statements;
- 41 • In case such translations are not possible, further conditions for use or
42 adaptations are specified, e.g. “Highly recommended where liquid splashes
43 may occur, e.g. during transfer of cryogenic liquids. In this case the use of
44 safety glasses with side shields and a face shield should be indicated in the
45 Safety Data Sheet.” for P282 for the hazard refrigerated liquefied gases;

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

- 1 • For some hazards the use of many specific precautionary statements will
2 normally have to be recommended. As a consequence the number of
3 precautionary statements on the label will easily exceed the target number of
4 six even for simple substances. On the other hand, the label, as compared to
5 the Safety Data Sheet, does not always appear to be the only and most
6 appropriate means to convey a message to industrial/professional users, e.g.
7 for P241 (Use explosion-proof electrical/ventilating/lighting/ .../equipment.). In
8 such cases the guidance also refers to the Safety Data Sheet, typically by
9 phrasing both a recommendation for the label and for the Safety Data Sheet.
10 The recommendation for inclusion on the label is then weaker than for the
11 Safety Data Sheet, see e.g. P241 for flammable liquids or P373 for explosive
12 hazards. In some cases, e.g. for P501 for explosive hazards, it is even
13 recommended to put the relevant precautionary statements in the Safety Data
14 Sheet only, e.g. under heading 13 “disposal considerations” for P501, instead
15 of on the label.
- 16 • In relation to the physical hazards it should always be checked whether
17 substances or mixtures displaying these hazards are supplied to or handled
18 by the general public. Where this is not the case, the use of further
19 precautionary statements could be de-prioritised (= weaker recommendation).
- 20 • The conditions of use distinguish between precautionary statements that are
21 “highly recommended”, “recommended”, “optional” and “not to be used” for
22 the hazard label. A particular recommendation should be seen in the light of
23 the original CLP (UN) conditions for use specified under the pertinent
24 precautionary statement in the selection tables. The target groups “for the
25 general public” and “for industrial/professional users” are specified; where
26 there is no explicit specification of the target group, the conditions for use
27 apply to both the general public and industrial/professional users;
- 28 • Where the use of a particular precautionary statement is (highly)
29 recommended but some exemptions are indicated (“unless” condition), it
30 should not be used where the conditions specified in the “unless” clause
31 apply, e.g. P264 for the hazard skin corrosion (skin category 1) should not be
32 used for industrial/professional users where P280 has already been selected
33 for the hazard label of the substance or mixture. Vice versa, where a
34 precautionary statement is only optional, it *should* be used where the
35 conditions specified in the “unless” clause apply, e.g. P410 for the hazard
36 class “Gases under pressure” should be applied in case the described gases
37 are subject to (slow) decomposition or polymerisation;
- 38 • Similar to the previous bullet: where the use of a particular precautionary
39 statement is (highly) recommended under certain conditions only, it should
40 not be used where these conditions do not apply, e.g. P260 should not be
41 used where a skin corrosive substance is not highly volatile;
- 42 • Where it is proposed to combine two or more precautionary statements that
43 could also be used on their own, the conditions of use specify “(highly)
44 recommended, in combination with Pxxx”, e.g. “Highly recommended, in
45 combination with P302+P350” for P310 for the hazard acute toxicity dermal,
46 category 1 and 2;
- 47 • The UN conditions for use as set out in the tables of Section 3 of Annex 3 to
48 the UN GHS and which are reflected in the “conditions for use” columns in
49 tables 6.1 – 6.5 of Annex IV to the CLP Regulation are taken into account;

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

- 1 • Additional guidance is provided for the application of the precautionary
2 statements P101, P102 and P103 for hazardous substances and mixtures
3 supplied to the general public.

4

5 The selection tables in section 7.3 follow the format as provided in Section 3 of
6 Annex 3 to the UN GHS; they are arranged according to hazard class and category
7 as appropriate. This approach is different from the format presented in Annex IV to
8 the CLP Regulation but was considered appropriate because it reflects the actual
9 process of assigning precautionary statements based on classification. The original
10 CLP (UN) conditions for use are displayed in black colour (normal letters and italics)
11 under the pertinent precautionary statements in the selection tables below. In
12 contrast, those conditions of use inserted in the tables which constitute EU guidance
13 are marked with an **asterisk bullet ★ and in blue colour**, in order to distinguish
14 them from the original CLP (UN) conditions for use, see also the columns containing
15 the conditions for use in tables 6.1 – 6.5 of Annex IV to the CLP Regulation.

16 For some hazard classes/-categories the assignment of precautionary statements
17 and corresponding conditions for use is proposed although they are not assigned
18 based on the UN GHS and the CLP Regulation. This applies in most cases to self-
19 reactive substances and mixtures and organic peroxides. The guiding principle for
20 these additional assignments is that the same (response) precautionary statements
21 should be applied to self-reactive substances and mixtures and organic peroxides.
22 Where corresponding assignments and conditions for use are proposed, this is
23 highlighted with the notion “add” after the code for the precautionary statement. It is
24 the goal to introduce these changes at UN level as well.

25 In selecting the precautionary statements in accordance with the conditions for use
26 set out in the tables, suppliers may combine these statements, having regard to
27 clarity and comprehensibility of the precautionary advice. In this case the specific
28 wording of the component phrases combined should be retained.

29 It should be noted that for substances and mixtures which display physical, health
30 and environmental hazard classifications at the same time a selection based on the
31 rules outlined in this guidance may still lead to a final set that exceeds the target
32 number of six statements for the label significantly, see the example of dimethyl zinc
33 below. Even if this could in principle be justified by CLP Article 28(3), the question
34 remains whether the extent of the labelling information is still digestible, in particular
35 where long combination statements appear. However, real-life experience which can
36 lead to further reduction/de-prioritisation is missing at the time when this guidance is
37 drafted. Until this experience has come in, it is proposed to verify with the set that
38 has been selected on the basis of this guidance whether

- 39 • Certain prevention and response statements provide more urgent advice than
40 other statements. This judgement can only be done on a case-by-case basis
41 and will strongly depend on the hazards involved;
- 42 • Whether to de-select those statements which appear less urgent from the
43 label and put them in the Safety Data Sheet instead.

44 Where a Safety Sheet must be prepared, the precautionary statements selected for
45 the CLP hazard label have to be included in the Safety Data Sheet, under heading
46 2.2 (“Labelling elements”), see the (draft) guidance on the compilation of Safety Data
47 Sheets. The de-selected statements can be introduced under the relevant headings
48 of the Safety Data Sheet as well, to provide the industrial or professional user with
49 sufficient information to handle the substance or mixture safely.

Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

1 The presentation of these tables is followed by two examples of substances where
2 the selection of precautionary statements for the label is illustrated.

3 7.3 Selection Tables

4 7.3.1 General Precautionary Statements

Precautionary Statement
<p>P101</p> <p>If medical advice is needed, have product container or label at hand.</p> <p>- Consumer products</p> <p>★ Highly recommended for all substances and mixtures classified for health hazards and that are sold to the general public”</p>
<p>P102</p> <p>Keep out of reach of children.</p> <p>- Consumer products</p> <p>★ Highly recommended for substances and mixtures sold to the general public, except for those only classified as hazardous to the environment</p>
<p>P103</p> <p>Read label before use.</p> <p>- Consumer products</p> <p>★ Optional, but may be required by other Community legislation</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.2 Specific Precautionary Statements for Physical Hazards

7.3.2.1 Explosives

Hazard category	Signal word	Hazard statement
Unstable explosive	Danger	H200 Unstable explosive



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P201 Obtain special instructions before use. ★ Highly recommended</p> <p>P202 Do not handle until all safety precautions have been read and understood. ★ Optional where P201 has already been assigned</p> <p>P281 Use personal protective equipment as required. ★ Highly recommended</p>	<p>P372 Explosion risk in case of fire. ★ Highly recommended</p> <p>P373 DO NOT fight fire when fire reaches explosives. ★ Recommended ★ Highly recommended for inclusion in the Safety Data Sheet</p> <p>P380 Evacuate area. ★ Highly recommended, in combination with P372</p>	<p>P401 Store In accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for inclusion in the Safety Data Sheet. Specify the applicable regulation. (example for the German context: "Gemäß 2. SprengV aufbewahren.")</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.2.1 Explosives

Hazard category	Signal word	Hazard statement
Division 1.1	Danger	H201 Explosive; mass explosion hazard
Division 1.2	Danger	H202 Explosive; severe projection hazard
Division 1.3	Danger	H203 Explosive; fire, blast or projection hazard



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P230 Keep wetted with Manufacturer/supplier to specify appropriate material. ★ Highly recommended for substances and mixtures which are wetted, diluted, dissolved or suspended with a phlegmatizer in order to reduce or suppress their explosive properties (desensitized explosives). The appropriate material is to be specified.</p>	<p>P370 + P380 In case of fire: evacuate area. ★ Highly recommended</p> <p>P372 Explosion risk in case of fire. ★ Highly recommended, in combination with P370+P380: Explosion risk in case of fire: evacuate area</p> <p>P373 DO NOT fight fire when fire reaches explosives. ★ Recommended ★ Highly recommended for inclusion in the Safety Data Sheet</p>	<p>P401 Store In accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for inclusion in the Safety Data Sheet. Specify the applicable regulation. (example for the German context: “Gemäß 2. SprengV aufbewahren.”)</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P240</p> <p>Ground/bond container and receiving equipment.</p> <p>- if the explosive is electrostatically sensitive.</p> <ul style="list-style-type: none"> ★ Optional unless other considerations deem it necessary ★ Recommended for inclusion in the SDS <p>P250</p> <p>Do not subject to grinding/shock/.../friction.</p> <p>... Manufacturer/supplier to specify applicable rough handling.</p> <ul style="list-style-type: none"> ★ Highly recommended if the explosive is mechanically sensitive ★ Optional for other explosives than those mentioned above <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p>			

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>- <i>specify face protection.</i></p> <ul style="list-style-type: none"> ★ Protective gloves/protective clothing/eye protection highly recommended for industrial/professional users ★ Face protection highly recommended for industrial/professional users where articles are able to form hazardous fragments ★ Optional for explosives supplied to the general public <p>P234 (add)</p> <p>Keep only in original container.</p> <ul style="list-style-type: none"> ★ Highly recommended 			

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.2.1 Explosives

Hazard category	Signal word	Hazard statement
Division 1.4	Warning	H204 Fire or projection hazard

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P240 Ground/bond container and receiving equipment. - if the explosive is electrostatically sensitive. ★ Optional unless other considerations deem it necessary ★ Recommended for inclusion in the Safety Data Sheet</p> <p>P250 Do not subject to grinding/shock/.../friction.</p>	<p>P370 + P380 In case of fire: Evacuate area. ★ Highly recommended</p> <p>P372 Explosion risk in case of fire. - except if explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF. ★ Highly recommended, except for division 1.4S, in combination with P370+P380: Explosion risk in case of fire: evacuate area</p> <p>P373 DO NOT fight fire when fire reaches explosives. ★ Recommended ★ Highly recommended for inclusion in the Safety Data Sheet</p>	<p>P401 Store In accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for inclusion in the Safety Data Sheet. Specify the applicable regulation. (example for the German context: "Gemäß 2. SprengV aufbewahren.")</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<p>... Manufacturer/supplier or the competent authority to specify applicable rough handling.</p> <ul style="list-style-type: none"> ★ Highly recommended if the explosive is mechanically sensitive ★ Optional for other explosives than those mentioned above <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>specify face protection.</i></p> <ul style="list-style-type: none"> ★ Protective gloves/protective clothing/eye protection highly recommended for industrial / professional users ★ Face protection highly recommended for industrial / professional users where articles are able to form hazardous fragments ★ Optional for explosives supplied to the general public <p>P234 (add)</p> <p>Keep only in original container.</p> <ul style="list-style-type: none"> ★ Highly recommended 	<p>P374</p> <p>Fight fire with normal precautions from a reasonable distance.</p> <p>If explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF.</p> <ul style="list-style-type: none"> ★ Highly recommended for division 1.4S 		
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Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.2.1 Explosives

Hazard category	Signal word	Hazard statement
Division 1.5	Danger	H205 May mass explode in fire

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P230 Keep wetted with Manufacturer/supplier to specify appropriate material. <i>- if drying out increases explosion hazard, except as needed for manufacturing or operating processes (e.g. nitrocellulose).</i> ★ Highly recommended for substances and mixtures which are wetted, diluted, dissolved or suspended with a phlegmatiser in order to reduce or suppress their explosive properties (desensitized explosives). The</p>	<p>P370 + P380 In case of fire: Evacuate area. ★ Highly recommended</p> <p>P372 Explosion risk in case of fire. ★ Highly recommended</p> <p>P373 DO NOT fight fire when fire reaches explosives. ★ Recommended ★ Highly recommended for inclusion in the Safety Data Sheet</p>	<p>P401 Store In accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for inclusion in the Safety Data Sheet. Specify the applicable regulation (example for the German context: "Gemäß 2. SprengV aufbewahren.")</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>appropriate material is to be specified.</p> <p>P240</p> <p>Ground/bond container and receiving equipment.</p> <p>- if the explosive is electrostatically sensitive.</p> <ul style="list-style-type: none"> ★ Optional unless other considerations deem it necessary ★ Recommended for inclusion in the Safety Data Sheet <p>P250</p> <p>Do not subject to grinding/shock/.../friction.</p> <p>... Manufacturer/supplier or the competent authority to specify applicable rough handling.</p> <ul style="list-style-type: none"> ★ Highly recommended if the explosive is mechanically sensitive ★ Optional for other explosives than those mentioned above <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/face</p>			

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>protection. Manufacturer/supplier to specify type of equipment. - <i>specify face protection.</i></p> <ul style="list-style-type: none"> ★ Protective gloves/protective clothing/eye protection highly recommended for industrial / professional users ★ Face protection highly recommended for industrial / professional users where articles are able to form hazardous fragments ★ Optional for explosives supplied to the general public <p>P234 (add) Keep only in original container.</p> <ul style="list-style-type: none"> ★ Highly recommended 			

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.2.2 Flammable Gases

Hazard category	Signal word	Hazard statement
1	Danger	H220 Extremely flammable gas
2	Warning	H221 Flammable gas



For hazard category 1

Precautionary Statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended	P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely. ★ Highly recommended P381 Eliminate all ignition sources if safe to do so. ★ Recommended	P403 Store in well-ventilated place. ★ Highly recommended	

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.2.3 Flammable Aerosols

Hazard category	Signal word	Hazard statement
1	Danger	H222 Extremely flammable aerosol
2	Warning	H223 Flammable aerosol



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended, unless a similar statement is assigned in accordance with Directive 75/324/EEC</p> <p>P211 Do not spray on open flame or other ignition source. ★ Highly recommended, unless a similar statement is assigned in accordance with Directive 75/324/EEC</p> <p>P251 Pressurized container: Do not pierce or burn, even after use. ★ Highly recommended, unless a similar statement is assigned in accordance with Directive 75/324/EEC</p>		<p>P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50° C / 122° F. ★ Highly recommended, unless a similar statement is assigned in accordance with Directive 75/324/EEC</p>	

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**



7.3.2.4 Oxidising Gases

Hazard category	Signal word	Hazard statement
1	Danger	H270 May cause or intensify fire; oxidizer

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier to specify other incompatible materials. ★ Highly recommended</p> <p>P244 Keep reduction valves free from grease and oil. ★ Highly recommended</p> <p>Note that this statement might be reworded as Keep valves and fittings free from oil and grease, in accordance with the 4th revised edition of the UN GHS</p>	<p>P370 + P376 In case of fire: Stop fire if safe to do so. ★ Optional ★ Recommended for inclusion in the Safety Data Sheet.</p>	<p>P403 Store in a well-ventilated place. ★ Highly recommended</p>	

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.2.5 Gases under Pressure

Hazard category	Signal word	Hazard statement
Compressed gas	Warning	H280 Contains gas under pressure; may explode if heated
Liquefied gas	Warning	H280 Contains gas under pressure; may explode if heated
Dissolved gas	Warning	H280 Contains gas under pressure; may explode if heated



Precautionary Statements			
Prevention	Response	Storage	Disposal
		P410 + P403 Protect from sunlight. Store in a well-ventilated place. ★ P410: Optional for gases filled in transportable gas cylinders in accordance with packing instruction P200 of the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, unless those gases are subject to (slow) decomposition or polymerisation ★ P403: Optional	

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.2.5 Gases under Pressure

Hazard category	Signal word	Hazard statement
Refrigerated liquefied gas	Warning	H281 Contains refrigerated gas; may cause cryogenic burns or injury



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P282</p> <p>Wear cold insulating gloves/face shield/eye protection.</p> <p>★ Highly recommended where liquid splashes may occur, e.g. during transfer of cryogenic liquids. In this case the use of safety glasses with side shields and a face shield should be indicated in the Safety Data Sheet.</p>	<p>P336</p> <p>Thaw frosted parts with lukewarm water. Do not rub affected area.</p> <p>★ Highly recommended</p> <p>P315</p> <p>Get immediate medical advice/attention.</p> <p>★ Recommended, in combination with P336</p>	<p>P403</p> <p>Store in a well-ventilated place.</p> <p>★ Optional</p>	

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.2.6 Flammable Liquids

Hazard category	Signal word	Hazard statement
1	Danger	H224 Extremely flammable liquid and vapour.
2	Danger	H225 Highly flammable liquid and vapour.
3	Warning	H226 Flammable liquid and vapour.



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P233 Keep container tightly closed. ★ Highly recommended for category 1, unless P404 has already been assigned ★ Recommended for category 2, unless P404 has already been assigned ★ Optional for category 3 ★ Recommended if product is volatile so as to generate a potentially explosive atmosphere, unless P404 has already been assigned</p>	<p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. ★ Optional unless deemed necessary, e.g. due to the risk of generating a potentially explosive atmosphere</p> <p>P370 + P378 In case of fire: Use ... for extinction. ... Manufacturer/supplier to specify appropriate media. - if water increases risk. ★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective or if water increases risk</p>	<p>P403 + P235 Store in a well-ventilated place. Keep cool. ★ Highly recommended for flammable liquids category 1 and other liquids that are volatile so as to generate a potentially explosive atmosphere</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. . It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P240</p> <p>Ground/bond container and receiving equipment.</p> <p>- <i>if electrostatically sensitive material is for reloading.</i></p> <p>- <i>If product is volatile so as to generate hazardous atmosphere.</i></p> <p>★ Optional unless other considerations deem it necessary</p> <p>★ Recommended for inclusion in the Safety Data Sheet</p> <p>P241</p> <p>Use explosion-proof electrical/ventilating/lighting/.../equipment.</p> <p>... Manufacturer/supplier to specify other equipment.</p> <p>★ Optional unless other considerations deem it necessary</p> <p>★ Recommended for inclusion in the Safety Data Sheet</p> <p>P242</p> <p>Use only non-sparkling tools.</p> <p>★ Optional unless other considerations deem it necessary</p>			

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>★ Recommended for inclusion in the Safety Data Sheet</p> <p>P243</p> <p>Take precautionary measures against static discharge.</p> <p>★ Optional unless other considerations deem it necessary</p> <p>★ Recommended for inclusion in the SDS</p> <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>specify protective gloves and eye/face protection.</i></p> <p>★ Optional</p>			

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**



7.3.2.7 Flammable Solids

Hazard category	Signal word	Hazard statement
1	Danger	H228 Flammable solid
2	Warning	H228 Flammable solid

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P240 Ground/bond container and receiving equipment. <i>- if electrostatically sensitive material is for reloading.</i> ★ Optional unless other considerations deem it necessary ★ Recommended for inclusion in the Safety Data Sheet</p> <p>P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. ... Manufacturer/supplier to specify other equipment. <i>- if dust clouds can occur.</i></p>	<p>P370 + P378 In case of fire: Use ... for extinction. ... Manufacturer/supplier to specify appropriate media. <i>- if water increases risk.</i> ★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective or if water increases risk</p>		

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<ul style="list-style-type: none"> ★ Optional unless other considerations deem it necessary ★ Recommended for inclusion in the Safety Data Sheet <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment. - <i>specify protective gloves and eye/face protection.</i></p> <ul style="list-style-type: none"> ★ Optional 			

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.2.8 Self-Reactive Substances and Mixtures

Hazard category	Signal word	Hazard statement
Type A	Danger	H240 Heating may cause an explosion

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier to specify other incompatible materials. ★ Recommended ★ Highly recommended for inclusion in the Safety Data Sheet</p> <p>P234 Keep only in original container. ★ Highly recommended where the</p>	<p>P370 + P378 In case of fire: Use ... for extinction. Manufacturer/supplier to specify appropriate media. - if water increases risk. ★ Normally not to be used due to the risk of explosion</p> <p>P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. ★ Highly recommended to use P370+P380 only; P375 not to be used</p>	<p>P403 + P235 Store in a well-ventilated place. Keep cool. ★ P403: Highly recommended ★ P235: Highly recommended, in combination with P403, unless P411 has already been assigned</p> <p>P411 Store at temperatures not exceeding ...° C / ...° F. ... Manufacturer/supplier to specify temperature. ★ Highly recommended if SADT ≤ 50 °C or if otherwise deemed necessary, in combination with P403</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>container is important for preventing or suppressing the effect of dangerous reactions or explosion</p> <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>specify protective gloves and eye/face protection.</i></p> <p>★ Highly recommended</p>		<p>P420</p> <p>Store away from other materials.</p> <p>★ Recommended where incompatible materials are likely to produce a particular risk. If this statement is used, text clarifying the incompatible materials should be added as supplemental information.</p> <p>★ Optional where P220 has already been assigned</p>	

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.2.8 Self-Reactive Substances and Mixtures

Hazard category	Signal word	Hazard statement
Type B	Danger	H241 Heating may cause a fire or explosion



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier to specify other incompatible materials. ★ Recommended ★ Highly recommended for inclusion in the Safety Data Sheet</p> <p>P234 Keep only in original container. ★ Highly recommended</p>	<p>P370 + P378 In case of fire: Use ... for extinction. Manufacturer/supplier to specify appropriate media. <i>- if water increases risk.</i> ★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective or if water increases risk</p> <p>P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. ★ Highly recommended</p>	<p>P403 + P235 Store in a well-ventilated place. Keep cool. ★ P403: Highly recommended ★ P235: Highly recommended, in combination with P403, unless P411 has already been assigned</p> <p>P411 Store at temperatures not exceeding ...° C / ...° F. ... Manufacturer/supplier to specify temperature. ★ Highly recommended if SADT ≤ 50 °C or if otherwise deemed necessary, in combination with P403</p> <p>P420 Store away from other</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>specify protective gloves and eye/face protection.</i></p> <p>★ Highly recommended</p>		<p>materials.</p> <p>★ Recommended where incompatible materials are likely to produce a particular risk. If this statement is used, text clarifying the incompatible materials should be added as supplemental information</p> <p>★ Optional where P220 has already been assigned</p>	

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.2.8 Self-Reactive Substances and Mixtures

Hazard category	Signal word	Hazard statement
Type C	Danger	H242 Heating may cause a fire
Type D	Danger	H242 Heating may cause a fire
Type E	Warning	H242 Heating may cause a fire
Type F	Warning	H242 Heating may cause a fire



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier to specify other incompatible materials. ★ Recommended ★ Highly recommended for inclusion in the Safety Data Sheet</p> <p>P234</p>	<p>P370 + P378 In case of fire: Use ... for extinction. Manufacturer/supplier to specify appropriate media. - if water increases risk. ★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective or if water increases risk</p>	<p>P403 + P235 Store in a well-ventilated place. Keep cool. ★ P403: Highly recommended ★ P235: Highly recommended, in combination with P403, unless P411 has already been assigned</p> <p>P411 Store at temperatures not exceeding ...° C / ...° F. ... Manufacturer/supplier to specify temperature. ★ Highly recommended if SADT ≤ 50 °C or if</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Keep only in original container.</p> <p>★ Highly recommended</p> <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>specify protective gloves and eye/face protection.</i></p> <p>★ Highly recommended</p>		<p>otherwise deemed necessary, in combination with P403.</p> <p>P420</p> <p>Store away from other materials.</p> <p>★ Recommended where incompatible materials are likely to produce a particular risk. If this statement is used, text clarifying the incompatible materials should be added as supplemental information</p> <p>★ Optional where P220 has already been assigned</p>	

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.2.9 Pyrophoric Liquids

Hazard category	Signal word	Hazard statement
1	Danger	H250 Catches fire spontaneously if exposed to air

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P222 Do not allow contact with air. ★ Optional unless emphasis of the hazard statement is desired</p> <p>P280 Wear protective gloves/protective clothing/eye protection/ face protection. Manufacturer/supplier to specify type of equipment. - specify protective gloves and eye/face protection. ★ Highly recommended</p>	<p>P302 + P334 IF ON SKIN: Immerse in cool water/wrap in wet bandages. ★ Highly recommended</p> <p>P370 + P378 In case of fire: Use ... for extinction. ... Manufacturer/supplier to specify appropriate media. - if water increases risk. ★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective or if water increases risk</p>	<p>P422 Store contents under Manufacturer/supplier to specify appropriate liquid or inert gas. ★ Recommended if a specific inert gas or liquid is required, unless P231 has already been assigned ★ Highly recommended for inclusion in the Safety Data Sheet</p>	

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<p>P231 (add)</p> <p>Handle under inert gas.</p> <ul style="list-style-type: none">★ Recommended, unless P422 has already been assigned★ Highly recommended for inclusion in the Safety Data Sheet			
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Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.2.10 Pyrophoric Solids

Hazard category	Signal word	Hazard statement
1	Danger	H250 Catches fire spontaneously if exposed to air

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P222 Do not allow contact with air. ★ Optional unless emphasis of the hazard statement is desired</p> <p>P280 Wear protective gloves/protective clothing/eye protection/ face protection. Manufacturer/supplier to specify type of equipment. - specify protective gloves and eye/face protection. ★ Highly recommended</p> <p>P231 (add)</p>	<p>P335 + P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. ★ Highly recommended</p> <p>P370 + P378 In case of fire: Use ... for extinction. ... Manufacturer/supplier to specify appropriate media. - if water increases risk. ★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective or if water increases risk</p>	<p>P422 Store contents under Manufacturer/supplier to specify appropriate liquid or inert gas. ★ Recommended if a specific inert gas or liquid is required, unless P231 has already been assigned ★ Highly recommended for inclusion in the Safety Data Sheet</p>	

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<p>Handle under inert gas.</p> <ul style="list-style-type: none">★ Recommended, unless P422 has already been assigned★ Highly recommended for inclusion in the Safety Data Sheet			
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Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.2.11 Self-Heating Substances and Mixtures

Hazard category	Signal word	Hazard statement
1	Danger	H251 Self-heating; may catch fire
2	Warning	H252 Self-heating in large quantities; may catch fire

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P235 + P410 Keep cool. Protect from sunlight.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public ★ Optional for industrial/professional users if P413 has already been assigned <p>P280 Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>specify protective gloves and eye/face protection.</i></p> <ul style="list-style-type: none"> ★ Optional 		<p>P407 Maintain air gap between stacks/pallets.</p> <ul style="list-style-type: none"> ★ Highly recommended <p>P413 Store bulk masses greater than kg/...lbs at temperatures not exceeding ...° C / ...° F.</p> <p>... Manufacturer/supplier to specify mass and temperature.</p> <ul style="list-style-type: none"> ★ Highly recommended if the manufacturer has specific information <p>P420 Store away from other materials.</p> <ul style="list-style-type: none"> ★ Recommended where incompatible materials are likely to produce a particular risk. If this statement is used, text clarifying the incompatible materials should be added as supplemental information ★ Optional where P220 has already been assigned 	

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.2.12 Substances and mixtures which, in contact with water, emit flammable gases



Hazard category	Signal word	Hazard statement
1	Danger	H260 In contact with water releases flammable gases, which may ignite spontaneously
2	Danger	H261 In contact with water releases flammable gas

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.</p> <p>★ Optional unless emphasis of the hazard statement is desired</p> <p>P231 + P232 Handle under inert gas. Protect from moisture.</p> <p>★ Highly recommended for substances and mixtures which react readily with moisture in air, where special emphasis is required</p> <p>P280 Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- specify protective gloves and eye/face protection.</p> <p>★ Recommended</p>	<p>P335 + P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.</p> <p>★ Highly recommended but do not use the phrase “wrap in wet bandages”</p> <p>P370 + P378 In case of fire: Use ... for extinction.</p> <p>... Manufacturer/supplier to specify appropriate media.</p> <p>- if water increases risk.</p> <p>★ Highly recommended if specific extinction media are required or appropriate</p>	<p>P402 + P404 Store in a dry place. Store in a closed container.</p> <p>★ Recommended, unless P231 has already been assigned</p> <p>★ Highly recommended for inclusion in the Safety Data Sheet</p>	<p>P501 Dispose of contents/container to ...</p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <p>★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p> <p>★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.2.12 Substances and mixtures which, in contact with water, emit flammable gases

Hazard category	Signal word	Hazard statement
3	Warning	H261 In contact with water releases flammable gas

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P231 + P232 Handle under inert gas. Protect from moisture.</p> <p>★ Highly recommended for substances and mixtures which react readily with moisture in air, where special emphasis is required</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- specify protective gloves and eye/face protection.</p> <p>★ Recommended</p>	<p>P370 + P378 In case of fire: Use ... for extinction.</p> <p>... Manufacturer/supplier to specify appropriate media.</p> <p>- if water increases risk.</p> <p>★ Highly recommended if specific extinction media are required or appropriate</p>	<p>P402 + P404 Store in a dry place. Store in a closed container.</p> <p>★ Recommended, unless P231 has already been assigned</p> <p>★ Highly recommended for inclusion in the Safety Data Sheet</p>	<p>P501 Dispose of contents/container to ...</p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <p>★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p> <p>★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.2.13 Oxidising Liquids

Hazard category	Signal word	Hazard statement
1	Danger	H271 May cause fire or explosion; strong oxidizer

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat. ★ Highly recommended</p> <p>P220 Keep/Store away from clothing/.../ combustible materials. ... Manufacturer/supplier to specify incompatible materials. - <i>specify to keep away from clothing as well as other incompatible materials.</i> ★ Optional where P221 has already been assigned ★ Highly recommended for inclusion in the Safety Data Sheet</p> <p>P221 Take any precaution to avoid mixing with combustibles/...</p>	<p>P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. ★ Recommended</p> <p>P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. ★ Highly recommended</p> <p>P370 + P378 In case of fire: Use ... for extinction. ... Manufacturer/supplier to specify appropriate media. - if water increases risk.</p>		<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>... Manufacturer/supplier to specify incompatible materials.</p> <p>★ Highly recommended</p> <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>specify protective gloves and eye/face protection.</i></p> <p>★ Recommended</p> <p>P283</p> <p>Wear fire/flame resistant/retardant clothing.</p> <p>★ Recommended for inclusion in the Safety Data Sheet</p>	<p>★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective or if water increases risk</p>		

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.2.13 Oxidising Liquids

Hazard category	Signal word	Hazard statement
2	Danger	H272 May intensify fire; oxidizer
3	Warning	H272 May intensify fire; oxidizer



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat. ★ Highly recommended</p> <p>P220 Keep/Store away from clothing/.../ combustible materials. ... Manufacturer/supplier to specify incompatible materials. ★ Optional where P221 has already been assigned ★ Highly recommended for inclusion in the Safety Data Sheet</p> <p>P221 Take any precaution to avoid mixing with combustibles/... ... Manufacturer/supplier to specify incompatible</p>	<p>P370 + P378 In case of fire: Use ... for extinction. ... Manufacturer/supplier to specify appropriate media. - if water increases risk. ★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective or if water increases risk</p>		<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
materials. ★ Highly recommended P280 Wear protective gloves/protective clothing/eye protection/ face protection. Manufacturer/supplier to specify type of equipment. - <i>specify protective gloves and eye/face protection.</i> ★ Recommended			

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.2.14 Oxidising Solids

Hazard category	Signal word	Hazard statement
1	Danger	H271 May cause fire or explosion; strong oxidizer

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat. ★ Highly recommended</p> <p>P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier to specify incompatible materials. - <i>specify to keep away from clothing as well as other incompatible materials.</i> ★ Optional where P221 has already been assigned ★ Highly recommended for inclusion in the Safety Data Sheet</p> <p>P221 Take any precaution to avoid mixing with combustibles/... ... Manufacturer/supplier to specify incompatible</p>	<p>P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. ★ Recommended</p> <p>P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. ★ Highly recommended</p> <p>P370 + P378 In case of fire: Use ... for extinction. ... Manufacturer/supplier to specify appropriate media. - <i>if water increases risk.</i> ★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective</p>		<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>materials.</p> <p>★ Highly recommended</p> <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>specify protective gloves and eye/face protection.</i></p> <p>★ Recommended</p> <p>P283</p> <p>Wear fire/flame resistant/retardant clothing.</p> <p>★ Recommended</p> <p>P283</p> <p>Wear fire/flame resistant/retardant clothing.</p> <p>★ Recommended for inclusion in the Safety Data Sheet</p>	<p>or if water increases risk</p>		

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**



7.3.2.14 Oxidising Solids

Hazard category	Signal word	Hazard statement
2	Danger	H272 May intensify fire; oxidizer
3	Warning	H272 May intensify fire; oxidizer

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat. ★ Highly recommended</p> <p>P220 Keep/Store away from clothing/.../ combustible materials. ... Manufacturer/supplier to specify incompatible materials. ★ Optional where P221 has already been assigned</p> <p>P221 Take any precaution to avoid mixing with combustibles/... ... Manufacturer/supplier to specify incompatible materials. ★ Highly recommended</p> <p>P280 Wear protective gloves/protective clothing/eye</p>	<p>P370 + P378 In case of fire: Use ... for extinction. ... Manufacturer/supplier to specify appropriate media. <i>- if water increases risk.</i> ★ Highly recommended if specific extinction media are required or appropriate</p>		<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<p>protection/ face protection. Manufacturer/supplier to specify type of equipment. - <i>specify protective gloves and eye/face protection.</i> ★ Recommended</p>			
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Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.2.15 Organic Peroxides

Hazard category	Signal word	Hazard statement
Type A	Danger	H240 Heating may cause an explosion

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier to specify other incompatible materials. ★ Recommended ★ Highly recommended for inclusion in the Safety Data Sheet</p> <p>P234 Keep only in original container. ★ Highly recommended where the container is important for preventing or</p>	<p>P370 + P380 (add) In case of fire: Evacuate area. ★ Highly recommended</p>	<p>P411 + P235 Store at temperatures not exceeding ...°C / ...°F. Keep cool. ... Manufacturer/supplier to specify temperature. ★ P411: Highly recommended if SADT ≤ 50 °C or if otherwise deemed necessary, in combination with P403 ★ P235: Highly recommended for other cases, in combination with P403</p> <p>P403 (add) Store in a well-ventilated place. ★ Highly recommended, in combination with P411 or P235</p> <p>P410 Protect from sunlight. ★ Optional if P411 or P235 has already been assigned</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<p>suppressing the effect of dangerous reactions or explosion</p> <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>specify protective gloves and eye/face protection.</i></p> <p>★ Highly recommended</p>		<p>P420</p> <p>Store away from other materials.</p> <p>★ Recommended where incompatible materials are likely to produce a particular risk. If this statement is used, text clarifying the incompatible materials should be added as supplemental information</p> <p>★ Optional where P220 has already been assigned</p>	
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Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.2.15 Organic Peroxides

Hazard category

Signal word

Hazard statement0

Type B

Danger

H241 Heating may cause a fire or explosion



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier to specify other incompatible materials. ★ Recommended</p> <p>P234 Keep only in original container. ★ Highly recommended</p> <p>P280 Wear protective gloves/protective</p>	<p>P370 + P380 + P375 (add) In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. ★ Highly recommended</p> <p>P370 + P378 (add) In case of fire: Use ... for extinction. ... Manufacturer/supplier to specify appropriate media. - if water increases risk. ★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective or if water increases risk</p>	<p>P411 + P235 Store at temperatures not exceeding ...° C / ...° F. Keep cool. ... Manufacturer/supplier to specify temperature. ★ P411: Highly recommended if SADT ≤ 50 °C or if otherwise deemed necessary, in combination with P403 ★ P235: Highly recommended for other cases, in combination with P403</p> <p>P403 (add) Store in a well-ventilated place. ★ Highly recommended, in combination with P411 or P235</p> <p>P410 Protect from sunlight. ★ Optional if P411 or P235 has</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

<p>clothing/eye protection/ face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <ul style="list-style-type: none"> - <i>specify protective gloves and eye/face protection.</i> ★ Highly recommended 		<p>already been assigned</p> <p>P420</p> <p>Store away from other materials.</p> <ul style="list-style-type: none"> ★ Recommended where incompatible materials are likely to produce a particular risk. If this statement is used, text clarifying the incompatible materials should be added as supplemental information ★ Optional where P220 has already been assigned 	
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Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

1 **7.3.2.15 Organic Peroxides**

2	Hazard category	Signal word	Hazard statement
3	Type C	Danger	H242 Heating may cause a fire
4	Type D	Danger	H242 Heating may cause a fire
5	Type E	Warning	H242 Heating may cause a fire
6	Type F	Warning	H242 Heating may cause a fire



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Manufacturer/supplier to specify applicable ignition source(s). ★ Highly recommended</p> <p>P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier to specify other incompatible materials. ★ Recommended</p> <p>P234 Keep only in original container. ★ Highly recommended</p>	<p>P370 + P378 (add) In case of fire: Use ... for extinction. ... Manufacturer/supplier to specify appropriate media. - <i>if water increases risk.</i> ★ Highly recommended if specific extinction media are required or appropriate, e.g. if water is ineffective or if water increases risk</p>	<p>P411 + P235 Store at temperatures not exceeding ...° C / ...° F. Keep cool. ... Manufacturer/supplier to specify temperature. ★ P411: Highly recommended if SADT ≤ 50 °C or if otherwise deemed necessary, in combination with P403 ★ P235: Highly recommended for other cases, in combination with P403 P403 (add) Store in a well-ventilated place. ★ Highly recommended, in combination with P411 or P235</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P280 Wear protective gloves/protective clothing/eye protection/ face protection. Manufacturer/supplier to specify type of equipment. - <i>specify protective gloves and eye/face protection.</i> ★ Highly recommended</p>		<p>P410 Protect from sunlight. ★ Optional if P411 or P235 has already been assigned</p> <p>P420 Store away from other materials. ★ Recommended where incompatible materials are likely to produce a particular risk. If this statement is used, text clarifying the incompatible materials should be added as supplemental information ★ Optional where P220 has already been assigned</p>	

1

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**



7.3.2.16 Corrosive to Metals

Hazard category	Signal word	Hazard statement
1	Warning	H290 May be corrosive to metals

Precautionary Statements			
Prevention	Response	Storage	Disposal
P234 Keep only in original container. ★ Recommended for the general public ★ Optional for industrial / professional users ★ Recommended for inclusion in the Safety Data Sheet	P390 Absorb spillage to prevent material damage. ★ Recommended	P406 Store in a corrosive resistant/... container with a resistant inner liner. ... Manufacturer/supplier to specify other compatible materials. ★ Optional ★ Do not use if P234 has already been assigned	

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.3 Specific Precautionary Statements for Health Hazards

7.3.3.1 Acute Toxicity - Oral

Hazard category	Signal word	Hazard statement
1	Danger	H300 Fatal if swallowed
2	Danger	H300 Fatal if swallowed
3	Danger	H301 Toxic if swallowed



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P264 Wash ... thoroughly after handling. Manufacturer / supplier to specify parts of the body to be washed after handling.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public ★ Recommended for industrial / professional users unless P280 has already been assigned <p>P270 Do not eat, drink or smoke when using this product.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public for categories 1 and 2 ★ Recommended for the general public 	<p>P301 + P310 IF SWALLOWED: Immediately call a POISON Center or doctor/physician.</p> <ul style="list-style-type: none"> ★ Highly recommended <p>P321 Specific treatment (see ... on this label). ... Reference to supplemental first aid instruction. <i>- if immediate administration of antidote is required.</i></p> <ul style="list-style-type: none"> ★ Highly recommended only in exceptional cases where specific treatment, including the administration of an antidote, is urgently required <p>P330</p>	<p>P405 Store locked up.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public ★ Optional for industrial / professional users unless other considerations deem it necessary 	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>for category 3</p> <ul style="list-style-type: none"> ★ Optional for industrial / professional users ★ Recommended for inclusion in the Safety Data Sheet 	<p>Rinse mouth.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public for categories 1 and 2 unless P301+P330+P331 has already been assigned ★ Recommended for the general public for category 3 unless P301+P330+P331 has already been assigned ★ Recommended for industrial / professional users for categories 1 and 2 unless P301+P330+P331 has already been assigned ★ Optional for industrial / professional users for category 3 		<p>above the normal expectation for the disposal of chemicals. . It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**



7.3.3.1 Acute Toxicity - Oral

Hazard category	Signal word	Hazard statement
4	Warning	H302 Harmful if swallowed

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P264 Wash ... thoroughly after handling. Manufacturer/supplier to specify parts of the body to be washed after handling.</p> <ul style="list-style-type: none"> ★ Recommended for the general public ★ Optional for industrial / professional users <p>P270 Do not eat, drink or smoke when using this product.</p> <ul style="list-style-type: none"> ★ Recommended for the general public ★ Optional for industrial / professional users ★ Recommended for inclusion in the Safety Data Sheet 	<p>P301 + P312 IF SWALLOWED: Call a POISON Center or doctor/physician if you feel unwell.</p> <ul style="list-style-type: none"> ★ Optional <p>P330 Rinse mouth.</p> <ul style="list-style-type: none"> ★ Optional 		<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified)</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.3.1 Acute Toxicity - Dermal

Hazard category	Signal word	Hazard statement
1	Danger	H310 Fatal in contact with skin
2	Danger	H310 Fatal in contact with skin

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P262 Do not get in eyes, on skin, or on clothing. ★ Highly recommended unless P280 has already been assigned</p> <p>P264 Wash ... thoroughly after handling. Manufacturer / supplier to specify parts of the body to be washed after handling. ★ Highly recommended for the general public ★ Highly recommended for industrial / professional users unless P280 has already been assigned</p> <p>P270 Do not eat, drink or smoke when using this product. ★ Highly recommended for the general public ★ Optional for industrial / professional users. ★ Recommended for inclusion in the Safety Data</p>	<p>P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water ★ Recommended for the general public ★ Recommended for inclusion in the Safety Data Sheet</p> <p>P310 Immediately call a POISON CENTER or doctor/physician. ★ Highly recommended, in combination with P302+P350</p> <p>P322 Specific measures (see ... on this label). ... Reference to supplemental first aid instruction. - if immediate measures such as specific cleansing agent is advised.</p>	<p>P405 Store locked up. ★ Highly recommended for the general public ★ Optional for industrial / professional users unless other considerations deem it necessary</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for inclusion in the Safety Data Sheet if there are specific disposal requirements above the normal expectation for the disposal of chemicals. Specify the applicable regulation.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<p>Sheet</p> <p>P280</p> <p>Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>Specify protective gloves/clothing.</i></p> <p>★ Highly recommended</p>	<p>★ Highly recommended only in exceptional cases where specific measures are required</p> <p>P361</p> <p>Remove/Take off immediately all contaminated clothing.</p> <p>★ Highly recommended, unless P280 has already been assigned</p> <p>P363</p> <p>Wash contaminated clothing before reuse.</p> <p>★ Recommended</p>		
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**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**



7.3.3.1 Acute Toxicity - Dermal

Hazard category	Signal word	Hazard statement
3	Danger	H311 Toxic in contact with skin

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P280 Wear protective gloves / protective clothing / eye protection / face protection.</p> <p>Manufacturer/supplier to specify type of equipment. - <i>Specify protective gloves/clothing.</i></p> <p>★ Highly recommended</p>	<p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water</p> <p>★ Recommended for the general public ★ Recommended for inclusion in the Safety Data Sheet</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>★ Recommended unless P310, P311 or P313 has already been assigned</p> <p>P322 Specific measures (see ... on this label). ... Reference to supplemental first aid instruction. - <i>if measures such as specific cleansing agent is advised.</i></p> <p>★ Highly recommended only in exceptional cases where specific measures are required</p>	<p>P405 Store locked up.</p> <p>★ Highly recommended for the general public ★ Optional for industrial / professional users unless other considerations deem it necessary</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).</p> <p>★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p> <p>★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

	<p>P361 Remove/Take off immediately all contaminated clothing. ★ Recommended, unless P280 has already been assigned</p> <p>P363 Wash contaminated clothing before reuse. ★ Optional</p>		
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**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**



7.3.3.1 Acute Toxicity - Dermal

Hazard category	Signal word	Hazard statement
4	Warning	H312 Harmful in contact with skin

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P280 Wear protective gloves / protective clothing / eye protection / face protection.</p> <p>Manufacturer/supplier to specify type of equipment. - <i>Specify protective gloves/clothing.</i></p> <p>★ Recommended</p>	<p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water ★ Optional</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell. ★ Recommended unless P310, P311 or P313 has already been assigned</p> <p>P322 Specific measures (see ... on this label). ... Reference to supplemental first aid instruction. - <i>if measures such as specific cleansing agent is advised.</i> ★ Highly recommended only in exceptional cases where specific measures are required</p> <p>P363 Wash contaminated clothing before reuse. ★ Optional</p>		<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).</p> <p>★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p> <p>★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.3.1 Acute Toxicity - Inhalation

Hazard category	Signal word	Hazard statement
1	Danger	H330 Fatal if inhaled
2	Danger	H330 Fatal if inhaled

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier to specify applicable conditions.</p> <p>★ Highly recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>★ Highly recommended for the general public ★ Optional for industrial/professional users</p> <p>P284 Wear respiratory protection. Manufacturer/supplier to specify equipment.</p> <p>★ Recommended where the substance / mixture is highly volatile or a gas or where</p>	<p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. ★ Highly recommended</p> <p>P310 Immediately call a POISON CENTER or doctor/physician. ★ Highly recommended, in combination with P304+P340</p> <p>P320 Specific treatment is urgent (see ... on this label) ... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required</i> ★ Highly recommended only in exceptional cases where specific</p>	<p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed. - <i>if product is volatile so as to generate hazardous atmosphere.</i> ★ Highly recommended where exposure via inhalation is possible, unless P404 has already been assigned</p> <p>P405 Store locked up. ★ Highly recommended for the general public ★ Optional for industrial / professional users unless other considerations deem it necessary</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the</p>

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

exposure via inhalation is possible, e.g. through spraying or inhalable dust	treatment, including the administration of an antidote, is urgently required		site of disposal while a reference to the applicable legislation is not necessary.
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Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.3.1 Acute Toxicity - Inhalation

Hazard category	Signal word	Hazard statement
3	Danger	H331 Toxic if inhaled

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P261</p> <p>Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>Manufacturer/supplier to specify applicable conditions.</p> <ul style="list-style-type: none"> ★ Recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust, unless P260 has already been assigned, <p>P271</p> <p>Use only outdoors or in a well-ventilated area.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public ★ Optional for industrial/professional users 	<p>P304 + P340</p> <p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <ul style="list-style-type: none"> ★ Recommended <p>P311</p> <p>Call a POISON CENTER or doctor/physician.</p> <ul style="list-style-type: none"> ★ Recommended, in combination with P304+P340 <p>P321</p> <p>Specific treatment (see ... on this label)</p> <p>... Reference to supplemental first aid instruction.</p> <ul style="list-style-type: none"> - <i>if immediate specific measures are required</i> ★ Highly recommended only in exceptional cases where specific treatment, including the administration of an antidote, is urgently required 	<p>P403 + P233</p> <p>Store in a well-ventilated place. Keep container tightly closed.</p> <p>- <i>if product is volatile so as to generate hazardous atmosphere.</i></p> <ul style="list-style-type: none"> ★ Highly recommended where exposure via inhalation is possible, unless P404 has already been assigned <p>P405</p> <p>Store locked up.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public ★ Optional for industrial / professional users unless other considerations deem it necessary 	<p>P501</p> <p>Dispose of contents/container to ...</p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**



7.3.3.1 Acute Toxicity - Inhalation

Hazard category	Signal word	Hazard statement
4	Warning	H332 Harmful if inhaled

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier to specify applicable conditions.</p> <p>★ Recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust, unless P260 has already been assigned</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>★ Highly recommended for the general public</p> <p>★ Optional for industrial/professional users</p>	<p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>★ Optional</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>★ Recommended, unless P310, P311 or P313 has already been assigned</p>		

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.3.2 Skin Corrosion / Irritation

Hazard category	Signal word	Hazard statement
1A, 1B, 1C	Danger	H314 Causes severe skin burns and eye damage



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>Manufacturer/supplier to specify applicable conditions.</p> <p>- specify do not breathe dusts or mists. - If inhalable particles of dusts or mists may occur during use.</p> <p>★ Highly recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust</p> <p>P264 Wash ... thoroughly after handling.</p> <p>Manufacturer/supplier to specify parts of the body to be washed after handling.</p> <p>★ Highly recommended for the general public, unless P280 has already</p>	<p>P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>★ Highly recommended for the general public, provided that medical advice indicates that the statement is appropriate</p> <p>★ Recommended for industrial / professional users</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.</p> <p>★ Highly recommended</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>★ Recommended for the general public</p> <p>★ Recommended for inclusion in the Safety Data Sheet</p>	<p>P405 Store locked up.</p> <p>★ Highly recommended for the general public</p> <p>★ Optional for industrial / professional users unless other considerations deem it necessary</p>	<p>P501 Dispose of contents/container to ... <i>... in accordance with local/regional/national/international regulations (to be specified).</i></p> <p>★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p> <p>★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>been assigned</p> <p>★ Highly recommended for industrial / professional users, unless P280 has already been assigned</p> <p>P280</p> <p>Wear protective gloves / protective clothing / eye protection / face protection.</p> <p>Manufacturer/supplier to specify type of equipment.</p> <p>- <i>Specify protective gloves/clothing and eye/face protection.</i></p> <p>★ Highly recommended</p>	<p>P304 + P340</p> <p>If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>★ Optional</p> <p>P310</p> <p>Immediately call a POISON Center or doctor/physician.</p> <p>★ Highly recommended, in combination with P303+P361+P353, P305+P351+ P338 or P301 + P330 + P331</p> <p>P321</p> <p>Specific treatment (see ... on this label).</p> <p>Reference to supplemental first aid instruction.</p> <p>- <i>Manufacturer/supplier may specify a cleansing agent if appropriate</i></p> <p>★ Highly recommended only in exceptional cases where specific treatment, including the administration of an antidote, is urgently required</p> <p>P305 + P351 + P338</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if</p>		<p>legislation is not necessary.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
	present and easy to do. Continue rinsing. ★ Highly recommended		

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**



7.3.3.2 Skin Corrosion / Irritation

Hazard category	Signal word	Hazard statement
2	Warning	H315 Causes skin irritation

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P264 Wash ... thoroughly after handling. ... Manufacturer/supplier to specify parts of the body to be washed after handling. ★ <i>Optional</i></p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier to specify type of equipment. - <i>Specify protective gloves.</i> ★ <i>Recommended</i></p>	<p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water. ★ <i>Optional for the general public</i> ★ <i>Recommended for inclusion in the Safety Data Sheet</i></p> <p>P321 Specific treatment (see ... on this label). Reference to supplemental first aid instruction. - <i>Manufacturer/supplier may specify a cleansing agent if appropriate</i> ★ <i>Highly recommended only in exceptional cases where specific treatment, including the administration of an antidote, is urgently required</i></p> <p>P332 + P313 If skin irritation occurs: Get medical advice / attention. ★ <i>Optional</i></p> <p>P362 Take off contaminated clothing and wash before reuse. ★ <i>Optional</i> ★ <i>Recommended for inclusion in the Safety Data Sheet</i></p>		

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**



7.3.3.3 Eye Damage / Eye Irritation

Hazard category	Signal word	Hazard statement
1	Danger	H318 Causes serious eye damage

Precautionary Statements			
Prevention	Response	Storage	Disposal
P280 Wear protective gloves/protective clothing/eye protection/face protection. ... Manufacturer/supplier to specify type of equipment. - <i>Specify eye/face protection.</i> ★ Highly recommended	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ★ Highly recommended P310 Immediately call a POISON Center or doctor/physician. ★ Highly recommended, in combination with P305+P351+P338		

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.3.3 Eye Damage / Eye Irritation

Hazard category	Signal word	Hazard statement
2	Warning	H319 Causes serious eye irritation

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P280 Wear protective gloves/protective clothing/eye protection/face protection. ... Manufacturer/supplier to specify type of equipment. - <i>Specify eye/face protection.</i> ★ Recommended</p> <p>P264 Wash ... thoroughly after handling. ... Manufacturer / supplier to specify parts of the body to be washed after handling. ★ Optional</p>	<p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ★ Recommended for the general public ★ Recommended for inclusion in the Safety Data Sheet</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention. ★ Recommended</p>		

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.3.4 Sensitisation - Respiratory

Hazard category	Signal word	Hazard statement
1, 1A, 1B	Danger	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier to specify applicable conditions.</p> <ul style="list-style-type: none"> ★ Highly recommended, unless P260 has already been assigned, where the substance / mixture is highly volatile or a gas or where there is a realistic risk of inhalation, e.g. through spraying or inhalable dust <p>P285 In case of inadequate ventilation wear respiratory protection. Manufacturer/supplier to specify equipment.</p> <ul style="list-style-type: none"> ★ Highly recommended, unless P284 has already been assigned, where the substance / mixture is highly volatile or a gas or where there is a realistic risk of inhalation, e.g. through spraying or inhalable dust 	<p>P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <ul style="list-style-type: none"> ★ Highly recommended, unless P304+P340 has already been assigned <p>P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.</p> <ul style="list-style-type: none"> ★ Highly recommended, in combination with P304+P341 		<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)



7.3.3.4 Sensitisation - Skin

Hazard category	Signal word	Hazard statement
1, 1A, 1B	Danger	H317 May cause an allergic skin reaction

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P261</p> <p>Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>Manufacturer/supplier to specify applicable conditions.</p> <ul style="list-style-type: none"> ★ Recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust, unless P260 has already been assigned <p>P272</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p> <ul style="list-style-type: none"> ★ Not intended to be used for the general public ★ Optional for industrial/professional users <p>P280</p> <p>Wear protective gloves / protective clothing / eye protection / face protection.</p> <p>... Manufacturer/supplier to specify type of</p>	<p>P302 + P352</p> <p>IF ON SKIN: Wash with plenty of soap and water.</p> <ul style="list-style-type: none"> ★ Recommended for the general public ★ Recommended for inclusion in the Safety Data Sheet <p>P333 + P313</p> <p>If skin irritation or rash occurs: Get medical advice/attention.</p> <ul style="list-style-type: none"> ★ Recommended <p>P321</p> <p>Specific treatment (see ... on this label)</p> <p>... Reference to supplemental first aid instruction.</p> <p>- <i>Manufacturer/supplier may specify a cleansing agent if appropriate.</i></p> <ul style="list-style-type: none"> ★ Highly recommended only in exceptional cases where specific treatment, including the administration of an antidote, is 		<p>P501</p> <p>Dispose of contents/container to ...</p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

equipment. - <i>Specify protective gloves.</i> ★ <i>Highly recommended</i>	<i>urgently required</i> P363 Wash contaminated clothing before reuse. ★ <i>Recommended</i>		
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Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.3.5 Germ Cell Mutagenicity

Hazard category	Signal word	Hazard statement
1A and 1B	Danger	H340 May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
2	Warning	H341 Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P201 Obtain special instructions before use.</p> <ul style="list-style-type: none"> ★ Highly recommended for category 1A and 1B ★ Recommended for category 2 <p>P202 Do not handle until all safety precautions have been read and understood.</p> <ul style="list-style-type: none"> ★ Optional where P201 has already been assigned <p>P281 Use personal protective equipment as</p>	<p>P308 + P313 IF exposed or concerned: Get medical advice / attention.</p> <ul style="list-style-type: none"> ★ Highly recommended for category 1A and 1B ★ Recommended for category 2 	<p>P405 Store locked up.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public¹² ★ Optional for industrial/professional users unless other considerations deem it necessary 	<p>P501 Dispose of contents/container to ...</p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial /

¹² Substances and mixtures which are listed in Appendix 1-6 of Annex XVII to Regulation (EC) No 1907/2006 (REACH) and which are assigned H340, H350 or H360 are restricted to industrial / professional users and normally not supplied to the general public (see entry 28, 29 and 30 in Annex XVII to REACH as amended by Commission Regulation (EC) No 552/2009).

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<p>required.</p> <ul style="list-style-type: none">★ Highly recommended to cover certain exposure risks or routes of exposure although P280, P282, P283, P284 or P285 may have been assigned as well			<p>professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>
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Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.3.6 Carcinogenicity

Hazard category	Signal word	Hazard statement
1A and 1B	Danger	H350 May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
2	Warning	H351 Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P201</p> <p>Obtain special instructions before use.</p> <ul style="list-style-type: none"> ★ Highly recommended for category 1A and 1B ★ Recommended for category 2 <p>P202</p> <p>Do not handle until all safety precautions have been read and understood.</p> <ul style="list-style-type: none"> ★ Optional where P201 has already been assigned 	<p>P308 + P313</p> <p>IF exposed or concerned: Get medical advice/attention.</p> <ul style="list-style-type: none"> ★ Highly recommended for category 1A and 1B ★ Recommended for category 2 	<p>P405</p> <p>Store locked up.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public¹³ ★ Optional for industrial/professional users unless other considerations deem it necessary 	<p>P501</p> <p>Dispose of contents/container to ...</p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

¹³ Substances and mixtures which are listed in Appendix 1-6 of Annex XVII to Regulation (EC) No 1907/2006 (REACH) and which are assigned H340, H350 or H360 are restricted to industrial / professional users and normally not supplied to the general public (see entry 28, 29 and 30 in Annex XVII to REACH as amended by Commission Regulation (EC) No 552/2009).

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<p>P281</p> <p>Use personal protective equipment as required.</p> <p>★ Highly recommended to cover certain exposure risks or routes of exposure although P280, P282, P283, P284 or P285 may have been assigned as well</p>			<p>★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>
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Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.3.7 Reproductive Toxicity

Hazard category	Signal word	Hazard statement
1A and 1B	Danger	H360 May damage fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
2	Warning	H361 Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P201</p> <p>Obtain special instructions before use.</p> <ul style="list-style-type: none"> ★ Highly recommended for category 1A and 1B ★ Recommended for category 2 <p>P202</p> <p>Do not handle until all safety precautions have been read and understood.</p> <ul style="list-style-type: none"> ★ Optional where P201 has already been 	<p>P308 + P313</p> <p>IF exposed or concerned: Get medical advice/attention.</p> <ul style="list-style-type: none"> ★ Highly recommended for category 1A and 1B ★ Recommended for category 2 	<p>P405</p> <p>Store locked up.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public¹⁴ ★ Optional for industrial / professional users unless other considerations deem it necessary 	<p>P501</p> <p>Dispose of contents/container to ...</p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not

¹⁴ Substances and mixtures which are listed in Appendix 1-6 of Annex XVII to Regulation (EC) No 1907/2006 (REACH) and which are assigned H340, H350 or H360 are restricted to industrial / professional users and normally not supplied to the general public (see entry 28, 29 and 30 in Annex XVII to REACH as amended by Commission Regulation (EC) No 552/2009).

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<p>assigned</p> <p>P281</p> <p>Use personal protective equipment as required.</p> <p>★ Highly recommended to cover certain exposure risks or routes of exposure although P280, P282, P283, P284 or P285 may have been assigned as well</p>			<p>necessary.</p> <p>★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>
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**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.3.7 Reproductive Toxicity

Hazard category

Hazard category for lactation effects

Signal word

No signal word

Hazard statement

H362 May cause harm to breast-fed children

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P201 Obtain special instructions before use. ★ Highly recommended</p> <p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier to specify applicable conditions. - <i>specify do not breathe dusts or mists.</i> - <i>If inhalable particles of dusts or mists may occur during use.</i> ★ Highly recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust</p> <p>P263 Avoid contact during pregnancy/while nursing. ★ Highly recommended</p>	<p>P308 + P313 IF exposed or concerned: Get medical advice/attention. ★ Recommended</p>		

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P264</p> <p>Wash ... thoroughly after handling.</p> <p>... Manufacturer / supplier to specify parts of the body to be washed after handling.</p> <p>★ Optional</p> <p>P270</p> <p>Do not eat, drink or smoke when using this product.</p> <p>★ Recommended for the general public</p> <p>★ Optional for industrial / professional users</p> <p>★ Recommended for inclusion in the Safety Data Sheet</p>			

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.3.8 Specific Target Organ Toxicity (Single Exposure)

Hazard category	Signal word	Hazard statement
1	Danger	H370 Causes damage to organs (or state all organs affected if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier to specify applicable conditions.</p> <ul style="list-style-type: none"> ★ Highly recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust <p>P264 Wash ... thoroughly after handling. ... Manufacturer / supplier to specify parts of the body to be washed after handling.</p> <ul style="list-style-type: none"> ★ Optional <p>P270 Do not eat, drink or smoke when using this product.</p>	<p>P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.</p> <ul style="list-style-type: none"> ★ Highly recommended <p>P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. <i>- if immediate measures are required.</i></p> <ul style="list-style-type: none"> ★ Highly recommended only in exceptional cases where specific treatment, including the administration of an antidote, is urgently required 	<p>P405 Store locked up.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public ★ Optional for industrial / professional users unless other considerations deem it necessary 	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<ul style="list-style-type: none">★ Recommended for the general public★ Optional for industrial / professional users★ Recommended for inclusion in the Safety Data Sheet			
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Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

7.3.3.8 Specific Target Organ Toxicity (Single Exposure)

Hazard category	Signal word	Hazard statement
2	Warning	H371 May cause damage to organs (or state all organs affected if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier to specify applicable conditions.</p> <ul style="list-style-type: none"> ★ Highly recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust <p>P264 Wash ... thoroughly after handling. ... Manufacturer / supplier to specify parts of the body to be washed after handling.</p> <ul style="list-style-type: none"> ★ Optional <p>P270 Do not eat, drink or smoke when using this product.</p>	<p>P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.</p> <ul style="list-style-type: none"> ★ Recommended 	<p>P405 Store locked up.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public ★ Optional for industrial / professional users unless other considerations deem it necessary 	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<ul style="list-style-type: none">★ Recommended for the general public★ Optional for industrial / professional users★ Recommended for inclusion in the Safety Data Sheet			
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Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

7.3.3.8 Specific Target Organ Toxicity (Single Exposure)

Hazard category	Signal word	Hazard statement
3		Warning
		H335 May cause respiratory irritation; or H336 May cause drowsiness or dizziness



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier to specify applicable conditions.</p> <ul style="list-style-type: none"> ★ Recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust, unless P260 has already been assigned, <p>P271 Use only outdoors or in a well-ventilated area.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public ★ Optional for industrial / professional users 	<p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. ★ <i>Optional</i></p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell. ★ Recommended unless P310, P311 or P313 has already been assigned</p>	<p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed. <i>- if product is volatile so as to generate hazardous atmosphere.</i></p> <ul style="list-style-type: none"> ★ Recommended where exposure via inhalation is possible, unless P404 is already assigned <p>P405 Store locked up.</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public ★ Optional for industrial / professional users unless other considerations deem it necessary 	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).</p> <ul style="list-style-type: none"> ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.3.9 Specific Target Organ Toxicity (Repeated Exposure)

Hazard category	Signal word	Hazard statement
1	Danger	H372 Causes damage to organs (state all organs affected if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier to specify applicable conditions. ★ Highly recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust</p> <p>P264 Wash ... thoroughly after handling. ... Manufacturer / supplier to specify parts of the body to be washed after handling. ★ Optional</p> <p>P270 Do not eat, drink or smoke when using this product.</p>	<p>P314 Get medical advice/attention if you feel unwell. ★ Recommended unless P310, P311, P312 or P313 has already been assigned</p>		<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

<ul style="list-style-type: none">★ Recommended for the general public★ Optional for industrial / professional users★ Recommended for inclusion in the Safety Data Sheet			
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**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.3.9 Specific Target Organ Toxicity (Repeated Exposure)

Hazard category	Signal word	Hazard statement
2	Warning	H373 May cause damage to organs (state all organs affected if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P260</p> <p>Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>Manufacturer/supplier to specify applicable conditions.</p> <p>★ Highly recommended where the substance / mixture is highly volatile or a gas or where exposure via inhalation is possible, e.g. through spraying or inhalable dust</p>	<p>P314</p> <p>Get medical advice/attention if you feel unwell.</p> <p>★ Recommended unless P310, P311, P312 or P313 has already been assigned</p>		<p>P501</p> <p>Dispose of contents/container to ...</p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <p>★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p> <p>★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.3.10 Aspiration Hazard



Hazard category	Signal word	Hazard statement
1	Danger	H304 May be fatal if swallowed and enters airways

Precautionary Statements			
Prevention	Response	Storage	Disposal
	P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. ★ Highly recommended, in combination with P331 P331 Do NOT induce vomiting. ★ Highly recommended, in combination with P301 +P310	P405 Store locked up. ★ Highly recommended for the general public ★ Optional for industrial / professional users unless other considerations deem it necessary	P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). ★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary. ★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.4 Specific Precautionary Statements for Environmental Hazards

7.3.4.1 Hazardous to the Aquatic Environment – Acute Hazard



Hazard category	Signal word	Hazard statement
1	Warning	H400 Very toxic to aquatic life

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P273 Avoid release to the environment. - <i>if this is not the intended use.</i></p> <p>★ Recommended, unless this is the intended use</p>	<p>P391 Collect spillage.</p> <p>★ Recommended</p>		<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).</p> <p>★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p> <p>★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.4.1 Hazardous to the Aquatic Environment – Chronic Hazard



Hazard category	Signal word	Hazard statement
1	Warning	H410 Very toxic to aquatic life with long lasting effects
2	No signal word	H411 Toxic to aquatic life with long lasting effects

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P273</p> <p>Avoid release to the environment.</p> <p>- <i>if this is not the intended use.</i></p> <p>★ Recommended, unless this is the intended use</p>	<p>P391</p> <p>Collect spillage.</p> <p>★ Recommended</p>		<p>P501</p> <p>Dispose of contents/container to ...</p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <p>★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p> <p>★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.3.4.1 Hazardous to the Aquatic Environment – Chronic Hazard

Hazard category	Signal word	Hazard statement
3	No signal word	H412 Harmful to aquatic life with long lasting effects
4	No signal word	H413 May cause long lasting harmful effects to aquatic life

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>P273</p> <p>Avoid release to the environment.</p> <p>- <i>if this is not the intended use.</i></p> <p>★ Recommended unless this is the intended use</p>			<p>P501</p> <p>Dispose of contents/container to ...</p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <p>★ Highly recommended for the general public if the substance / mixture is subject to legislation on hazardous waste. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p> <p>★ Recommended for industrial / professional users if there are specific disposal requirements above the normal expectation for the disposal of chemicals. It is recommended to specify the site of disposal while a reference to the applicable legislation is not necessary.</p>

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

7.3.5 Additional Hazards

7.3.5.1 Hazardous to the ozone layer (see the explanations provided in section 4.8 of this document)



Hazard category	Signal word	Hazard statement
1	Warning	H420 Harms public health and the environment by destroying ozone in the upper atmosphere

Precautionary Statements			
Prevention	Response	Storage	Disposal
			P502 Dispose of contents/container to ... Refer to manufacturer/supplier for information on recovery / recycling ★ Highly recommended

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

7.4. Examples for the selection of precautionary statements for the label

The selection of precautionary statements along the lines of the proposed guidance above is illustrated below with various model substances. The set of precautionary statements to be prioritized for the label is highlighted in **bold underlined (highly recommended)** and underlined (recommended), while the optional statements appear in normal letters (no highlighting) and the statements **not to be used** are put in grey colour.

Please note that even if a substance or mixture has the same hazards as one of the following examples, another set of precautionary statements might be appropriate based on the specific conditions for use given in the tables above.

10

1. Example of a substance (imaginary) assigned a physical and various health hazard classifications

A. Classification and hazard statements:

Flam. Liq. 2	H225 (Highly flammable liquid and vapour)
Acute Tox. 3 (oral)	H301 (Toxic if swallowed)
Acute Tox. 3 (dermal)	H311 (Toxic in contact with skin)
Acute Tox. 3 (inhalation)	H331 (Toxic if inhaled)
STOT-SE 1	H370 (Causes damage to organs)

19

B. Further information:

This substance is presumed to be volatile, but not so as to generate a potentially explosive atmosphere. There is possible exposure via inhalation. Specific extinction media are not necessary. Specific treatment/measures is/are not urgently required. There are no specific disposal requirements. The substance is not intended to be used by the general public, but rather only by industrial/professional users.

C. Precautionary statements on the basis of the classification (see Annex IV to CLP) and according to the guidance:

27

Acute Tox. 3 (Oral)	Acute Tox. 3 (Dermal)	Acute Tox. 3 (Inhalation)	STOT-SE 1	Flam. Liq. 2
P264 P270	<u>P280</u>	P261 P271	<u>P260</u> P264 P270	<u>P210</u> <u>P233</u> P240 P241 P242 P243

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

				P280
<u>P301 + P310</u> P321 P330	P312 P322 P361 P363 P302 + P352	<u>P304 + P340</u> P311 P321	<u>P307 + P311</u> P321	P303 + P361 + P353 P370 + P378
P405	P405	<u>P403 + P233</u> P405	P405	P403 + P235
P501	P501	P501	P501	P501

1
2 **P261** = highly recommended **P261** = recommended P261 = optional **P261** = not to be
3 used/unless condition applies/inclusion on Safety Data Sheet only
4

5 D. Selection of highly recommended and recommended precautionary statements:

6 Where the same statement is assigned to different hazards, but with different priority, the most
7 conservative approach is taken. Where appropriate, precautionary statements are combined
8 into a single combination statement. Duplication of individual phrases is avoided. This results in
9 the following in the case of this substance:

10 **P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.**

11 **P260 Do not breathe dust/fume/gas/mist/vapours/spray.**

12 **P280 Wear protective gloves/protective clothing/eye protection/ face protection.**

13 **P301+P310 IF SWALLOWED: Immediately call a POISON Center or doctor/physician.**

14 **P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.**

15 **P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position**
16 **comfortable for breathing.**

17 **P403+P233 Store in a well-ventilated place. Keep container tightly closed.**

18
19 E. Result:

20 **A substantial reduction is achieved: selection in line with the guidance results in seven**
21 **precautionary statements. This compares with a starting set of 28 different potentially**
22 **applicable statements for the CLP hazard label, assignable on the basis of the underlying**
23 **hazards.**

24 The selected precautionary statements should be placed on the CLP hazard label. As a Safety
25 Sheet needs to be prepared, they would also have to be included in the Safety Data Sheet,
26 under heading 2.2 (“Labelling elements”), see the (draft) guidance on the compilation of Safety

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

1 Data Sheets. The de-selected statements can be introduced under the relevant headings of the
2 Safety Data Sheet as well, to provide the industrial or professional user with sufficient
3 information to handle the substance safely.

4 **2. Example of a substance (sodium peroxide Na₂O₂, EC No 215-209-4) assigned a severe** 5 **physical and health hazard classification**

6 A. Classification and hazard statements:

7 Ox. Sol. 1 H271 (May cause fire or explosion; strong oxidiser)

8 Skin Corr. 1A H314 (Causes severe skin burns and eye damage)

9

10 B. Further information:

11 This substance is presumed to be non-volatile. There is therefore no exposure via inhalation.
12 Specific extinction media are not necessary. Specific treatment/measures is/are not urgently
13 required. There are no specific disposal requirements. The substance is not intended to be used
14 by the general public, but rather only by industrial/professional users.

15 C. Precautionary statements on the basis of the classification (see Annex IV to CLP) and 16 according to the guidance:

17

Ox. Sol. 1	Skin Corr. 1A
<u>P210</u> P220 <u>P221</u> <u>P280</u> P283	P260 P264 <u>P280</u>
<u>P306+P360</u> <u>P371+P380+P375</u> P370+P378	<u>P301+P330+P331</u> <u>P303+P361+P353</u> P363 P304+P340 <u>P310</u> P321 <u>P305+P351+P338</u>
-	P405
P501	P501

18

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

1 **P261** = highly recommended P261 = recommended P261 = optional **P261** = not to be
2 used/unless condition applies/inclusion on Safety Data Sheet only

3

4 D. Selection of highly recommended and recommended precautionary statements:

5 Where the same statement is assigned to different hazards, but with different priority, the most
6 conservative approach is taken. Where appropriate, precautionary statements are combined
7 into a single combination statement. Duplication of individual phrases is avoided. This results in
8 the following in the case of this substance:

9 **P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.**

10 **P221 Take any precaution to avoid mixing with combustibles.**

11 **P280 Wear protective gloves/protective clothing/eye protection/ face protection.**

12 **P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.**

13 **P303+P361+P353+310 IF ON SKIN (or hair): Remove/Take off immediately all**
14 **contaminated clothing. Rinse skin with water/shower. Immediately call a POISON**
15 **CENTER or doctor/physician.**

16 **P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove**
17 **contact lenses, if present and easy to do. Continue rinsing.**

18 **P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire**
19 **remotely due to the risk of explosion.**

20

21 E. Result:

22 **A substantial reduction is achieved: selection in line with the guidance results in seven,**
23 **mostly combined, precautionary statements. This compares with a starting set of 19**
24 **different potentially applicable statements for the CLP hazard label, assignable on the**
25 **basis of the underlying hazards.**

26 The selected precautionary statements should be placed on the CLP hazard label. As a Safety
27 Data Sheet needs to be prepared, they would also have to be included in the Safety Data
28 Sheet, under heading 2.2 (“Labelling elements”), see the (draft) guidance on the compilation of
29 Safety Data Sheets. The de-selected statements can be introduced under the relevant headings
30 of the Safety Data Sheet as well, to provide the industrial or professional user with sufficient
31 information to handle the substance safely.

32

33 **3. Example of a substance (dimethylzinc, EC No 208-884-1) assigned physical, health and**
34 **environmental classifications**

35 A. Classification and hazard statements:

36 Pyr. Liq. 1 H250

37 Water-react. 1 H260

38 Skin Corr. 1B H314

Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)

1 Aquatic Acute 1 (H400; is redundant because of H410)

2 Aquatic Chronic 1 H410

3

4 B. Further information:

5 This substance is presumed to be non-volatile. There is therefore no exposure via inhalation.
 6 Specific extinction media are necessary, because water will increase the risk when used for the
 7 extinction of fire. Specific disposal requirements are in place. The substance is not intended to
 8 be used by the general public, but rather only by industrial/professional users.

9

10 C. Precautionary statements on the basis of the classification (see Annex IV to CLP) and
 11 according to the guidance:

12

Pyr. Liq.1	Water-react. 1	Skin Corr. 1B	Aquatic Acute 1	Aquatic Chronic 1
<u>P210</u> P222 <u>P280</u> P231(add)	P223 <u>P231+P232</u> P280	<u>P260</u> <u>P264</u> <u>P280</u>	<u>P273</u>	<u>P273</u>
<u>P302+P334</u> <u>P370+P378</u>	<u>P335+P334</u> <u>P370+P378</u>	<u>P301+P330+P331</u> <u>P303+P361+P353</u> <u>P363</u> P304+P340 <u>P310</u> <u>P321</u> <u>P305+P351+P338</u>	<u>P391</u>	<u>P391</u>
<u>P422</u>	<u>P402+P404</u>	P405	-	-
-	<u>P501</u>	<u>P501</u>	<u>P501</u>	<u>P501</u>

13

14 **P261** = highly recommended **P261** = recommended P261 = optional **P261** = not to be
 15 used/unless condition applies/inclusion on Safety Data Sheet only

16

17 D. Selection of highly recommended and recommended precautionary statements:

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

1 Where the same statement is assigned to different hazards, but with different priority, the most
2 conservative approach is taken. Where appropriate, precautionary statements are combined
3 into a single combination statement. Duplication of individual phrases is avoided.

4 P303+ P361+P353 (IF ON SKIN (or hair): Remove / Take off immediately all contaminated
5 clothing. Rinse skin with water / shower.) and P302+P335+P334+P310 (IF ON SKIN: Brush off
6 loose particles from skin. Immerse in cool water.¹⁵ Immediately call a POISON CENTER or
7 doctor/physician.) were merged into one single combination phrase
8 P303+ P335+P334+P310+P361 where duplication of the message was avoided.

9 This results in the following in the case of this substance:

10 **P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.**

11 **P273 Avoid release to the environment.**

12 **P280 Wear protective gloves/protective clothing/eye protection/ face protection.**

13 **P391 Collect spillage.**

14 **P501 Dispose of contents/container to ...**

15 **P231+P232 Handle under inert gas. Protect from moisture.**

16 **P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.**

17 **P303+ P335+P334+P310+P361 IF ON SKIN (or hair): Brush off loose particles from**
18 **skin. Immerse in cool water.¹⁶Immediately call a POISON CENTER or doctor/physician**
19 **Remove / Take off immediately all contaminated clothing.**

20 **P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.**
21 **Remove contact lenses, if present and easy to do. Continue rinsing.**

22 **P370+P378 In case of fire: Use ... for extinction.**

23

24 **E. Result:**

25 **A substantial reduction is achieved: selection in line with the guidance results in 10,**
26 **partly combined, precautionary statements. This compares with a starting set of 23**
27 **different potentially applicable statements for the CLP hazard label, assignable on the**
28 **basis of the underlying hazards.**

29 **However, a set of 10 mostly long precautionary statements exceeds the target number of**
30 **six and also the amount of digestible information. It may be worthwhile to consider**
31 **whether at least the statements P391 and P501 should be put in the Safety Data Sheet**
32 **instead of on the label as the prevention and response statements for the physical and**
33 **health hazards appear to contain the more urgent advice for the label. This would further**
34 **reduce the number of statements on the label to eight.**

¹⁵ The sub-phrase of P334 “/wrap in wet bandages” is not to be used for water-reactive substances and mixtures category 1, see Table 7.2.12.

¹⁶ The sub-phrase of P334 “/wrap in wet bandages” is not to be used for water-reactive substances and mixtures category 1, see Table 7.2.12.

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

1 The selected precautionary statements should be placed on the CLP hazard label. As a Safety
2 Data Sheet needs to be prepared, they would also have to be included in the Safety Data
3 Sheet, under heading 2.2 (“Labelling elements”), see the (draft) guidance on the compilation of
4 Safety Data Sheets. The de-selected statements can be introduced under the relevant headings
5 of the Safety Data Sheet as well, to provide the industrial or professional user with sufficient
6 information to handle the substance safely.

7

8 4. Example of a mixture (imaginary) for consumer use

9 A. Classification and hazard statements:

10 Flam. Liq. 2 H225 (Highly flammable liquid and vapour)

11 Acute Tox. 4 (oral) H302 (Harmful if swallowed)

12 Skin irrit. 2 H315 (Causes skin irritation)

13

14 B. Further information:

15 This mixture is presumed to be volatile, but not so as to generate a potentially explosive
16 atmosphere. Specific extinction media are not necessary. Specific treatment is not urgently
17 required. There are no specific disposal requirements. The mixture is intended to be used by the
18 general public.

19 C. Precautionary statements on the basis of the classification (see Annex IV to CLP) and 20 according to the guidance:

21

Flam. Liq. 2	Acute Tox. 4 (Oral)	Skin Irrit. 2
<u>P102, P102</u>		
<u>P210</u> <u>P233</u> P240 P241 P242 P243 P280	<u>P264</u> <u>P270</u>	P264 <u>P280</u>
P303 + P361 + P353 P370 + P378	P301+P312 P330	P302+P352 P321 P332+P313

**Guidance on Labelling and Packaging in accordance with the CLP Regulation
(draft)**

		P362
P403 + P235	-	-
P501	P501	-

1
2 **P261** = highly recommended P261 = recommended P261 = optional **P261** = not to be
3 used/unless condition applies/inclusion on Safety Data Sheet only

4
5 D. Selection of highly recommended and recommended precautionary statements:

6 Where the same statement is assigned to different hazards, but with different priority, the most
7 conservative approach is taken. Where appropriate, precautionary statements are combined
8 into a single combination statement. Duplication of individual phrases is avoided. This results in
9 the following in the case of this substance:

- 10 **P101 If medical advice is needed, have product container or label at hand.**
11 **P102 Keep out of reach of children.**
12 **P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.**
13 P233 Keep container tightly closed.
14 P264 Wash ... thoroughly after handling.
15 P270 Do not eat, drink or smoke when using this product.
16 P280 Wear protective gloves.

17
18 E. Result:

19 **A substantial reduction is achieved: selection in line with the guidance results in seven**
20 **precautionary statements. This compares with a starting set of 19 different potentially**
21 **applicable statements for the CLP hazard label, assignable on the basis of the underlying**
22 **hazards.**

23
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Guidance on Labelling and Packaging in accordance with the CLP Regulation (draft)

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Attachment: Glossary

Terms used in this guidance document

ADR means the European Agreement concerning the International Carriage of Dangerous Goods by Road, concluded in Geneva on 30 September 1957, that has been implemented within the EU through Directive 2008/68/EC;

Acute toxicity means those adverse effects occurring following oral or dermal administration of a single dose of a substance or mixture, or multiple doses given within 24 hours, or an inhalation exposure of 4 hours.

Aerosols means aerosol dispensers, any non-refillable receptacles made of metal, glass or plastics and containing a gas compressed, liquefied or dissolved under pressure, with or without a liquid, paste or powder, and fitted with a release device allowing the contents to be ejected as solid or liquid particles in suspension in a gas, as a foam, paste or powder or in a liquid state or in a gaseous state;

Alloy means a metallic material, homogeneous on a macroscopic scale, consisting of two or more elements so combined that they cannot be readily separated by mechanical means; alloys are considered to be mixtures for the purposes of CLP;

Article, as defined in Article 2(9) of the CLP Regulation, means an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition;

Aspiration means the entry of a liquid or solid substance or mixture directly through the oral or nasal cavity, or indirectly from vomiting, into the trachea and lower respiratory system;

Carcinogen means a substance or a mixture of substances which induces cancer or increases its incidence

CLP or **CLP Regulation** means Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures;

CMR means a substance or mixture which is carcinogenic, mutagenic or toxic to reproduction

Corrosive to metals means materially damaging, or even destroying, metals by chemical action of a substance or a mixture;

CRC means child-resistant closure;

CRF means child-resistant fastening;

Distributor means any natural or legal person established within the Community, including a retailer, who only stores and places on the market a substance, on its own or in a mixture, for third parties;

Downstream user means any natural or legal person established within the Community, other than the **manufacturer** or the **importer**, who uses a substance, either on its own or in a mixture, in the course of his industrial or professional activities. A **distributor** or a **consumer** is not a **downstream user**. A **re-importer**, exempted pursuant to Article 2(7)(c) REACH Regulation, shall be regarded as a **downstream user**;

DPD means the Dangerous Preparations Directive (1999/45/EC);

DSD means the Dangerous Substances Directive (67/548/EEC);

Explosive article means an article containing one or more explosive substances;

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

- 1 **Explosive substance** means a solid or liquid substance (or mixture of substances) which is in itself
2 capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed
3 as to cause damage to the surroundings. Pyrotechnic substances are included even when they do not
4 evolve gases;
- 5 **Eye irritation** means the production of changes in the eye following the application of test substance to
6 the anterior surface of the eye, which are fully reversible within 21 days of application;
- 7 **Flammable gas** means a gas having a flammable range with air at 20 °C and a standard pressure of
8 101.3 kPa;
- 9 **Flammable liquid** means a liquid having a flash point of not more than 60°C. **Flash point** means the
10 lowest temperature (corrected to a standard pressure of 101.3 kPa) at which the application of an ignition
11 source causes the vapours of a liquid to ignite under specified test conditions;
- 12 **Flammable solid** means a solid which is readily combustible, or may cause or contribute to fire through
13 friction;
- 14 **GHS** means the “Globally Harmonised System of Classification and Labelling of Chemicals” developed
15 within the United Nations (UN) structure;
- 16 **Hazard category** means the division of criteria within each hazard class, specifying hazard severity;
- 17 **Hazard class** means the nature of the physical, health or environmental hazard;
- 18 **Hazard pictogram** (sometimes also referred to as “pictogram” in this document) means a graphical
19 composition that includes a symbol plus other graphic elements, such as a border, background pattern or
20 colour that is intended to convey specific information about the hazard concerned;
- 21 **Hazard statement** means a phrase assigned to a hazard class and category that describes the nature of
22 the hazards of a hazardous substance or mixture, including, where appropriate, the degree of hazard;
- 23 **Hazardous** means fulfilling the criteria relating to physical hazards, health hazards or environmental
24 hazards, laid down in parts 2 to 5 of Annex I of CLP;
- 25 **IMDG Code** means the “International Maritime Dangerous Goods Code” for the transport of dangerous
26 goods by sea;
- 27 **Import** means the physical introduction into the customs territory of the Community;
- 28 **Importer** means any natural or legal person established within the Community who is responsible for
29 import;
- 30 *INCI means International Nomenclature of Cosmetic Ingredients;*
- 31 **Intermediate packaging** means packaging placed between inner packaging, or articles, and outer
32 packaging;
- 33 **IUCLID** means the International Uniform Chemical Information Database;
- 34 **Label** means an appropriate group of written, printed or graphic information elements concerning a
35 hazardous substances or mixture, selected as relevant to the target sector (s), that is affixed to, printed
36 on, or attached to the immediate container of a hazardous substance or mixture, or to the outside
37 packaging of a hazardous substances or mixture (definition follows Chapter 1.2 of the UN GHS);
- 38 **Label element** means one type of information that has been harmonised for use in a label, e.g. hazard
39 pictogram, signal word;
- 40 **M-factor** means a multiplying factor. It is applied to the concentration of a substance classified as
41 hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by
42 the summation method the classification of a mixture in which the substance is present;
- 43 **Manufacturer** means any natural or legal person established within the Community who manufactures a
44 substance within the Community;

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

- 1 **Manufacturing** means production or extraction of substances in the natural state;
- 2 **Mixture** means a mixture or solution composed of two or more substances (Note: “Mixture” (CLP) and
3 “preparation” (REACH) are synonymous). However, UN GHS Chapter 1.2 includes the phrase, “in which
4 they do not react” at the end of an otherwise identical definition;
- 5 **Mutagen** means an agent giving rise to an increased occurrence of mutations in populations of cells and
6 /or organisms;
- 7 **Organic peroxide** means a liquid or solid organic substance which contains the bivalent -O-O-structure
8 and may be considered a derivative of hydrogen peroxide, where one or both of the hydrogen atoms have
9 been replaced by organic radicals. The term also includes organic peroxide formulations (mixtures);
- 10 **Oxidising gas** means any gas which may, generally by providing oxygen, cause or contribute to the
11 combustion of other material more than air does;
- 12 **Oxidising liquid** means a liquid which, while in itself not necessarily combustible, may, generally by
13 yielding oxygen, cause, or contribute to, the combustion of other material;
- 14 **Oxidising solid** means a solid which, while in itself not necessarily combustible, may, generally by
15 yielding oxygen, cause, or contribute to, the combustion of other material;
- 16 **Package** means the complete product of the packing operation, consisting of the packaging and its
17 contents;
- 18 **Packaging** means one or more receptacles and any other components or materials necessary for the
19 receptacles to perform their containment and other safety functions;
- 20 **Pictogram** see hazard pictogram
- 21 **Placing on the market** means supplying or making available, whether in return for payment or free of
22 charge, to a third party. Import shall be deemed to be placing on the market.
- 23 **Precautionary statement** means a phrase that describes recommended measure(s) to minimise or
24 prevent adverse effects resulting from exposure to a hazardous substance or mixture due to its use or
25 disposal;
- 26 **Product identifier** means details permitting the identification of the substance or mixture;
- 27 **Pyrophoric liquid** means a liquid which, even in small quantities, is liable of igniting within five minutes
28 after coming into contact with air;
- 29 **Pyrophoric solid** means a solid which, even in small quantities, is liable of igniting within five minutes
30 after coming into contact with air;
- 31 **Pyrotechnic article** means an article containing one or more pyrotechnic substances;
- 32 **Pyrotechnic substance** means a substance or mixture of substances designed to produce an effect by
33 heat, light, sound, gas or smoke or a combination of these as the result of non-detonative self-sustaining
34 exothermic chemical reactions;
- 35 **REACH and REACH Regulation** means Regulation (EC) No 1907/2006 concerning the Registration,
36 Evaluation, Authorisation and Restriction of Chemicals;
- 37 **Registrant** means the **manufacturer** or the **importer** of a substance or the **producer or importer of an**
38 **article** submitting a registration for a substance under the REACH Regulation;
- 39 **Reproductive Toxicity** includes adverse effects on sexual function and fertility in adult males and
40 females, as well as developmental toxicity in the offspring and effects on or via lactation;
- 41 **Respiratory sensitiser** means a substance that will lead to hypersensitivity of the airways following
42 inhalation of the substance;
- 43 **SADT** means Self-Accelerating Decomposition Temperature;

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

- 1 **SDS** means “Safety Data Sheet”;
- 2 **Self-heating substance** means a solid or liquid substance, other than a pyrophoric substance, which, by
3 reaction with air and without energy supply, is liable to self-heat; this substance differs from a pyrophoric
4 substance in that it will ignite only when in large amounts (kilograms) and after long periods of time (hours
5 or days);
- 6 **Self-reactive substance** means a thermally unstable liquid or solid substance liable to undergo a
7 strongly exothermic decomposition even without participation of oxygen (air). This definition excludes
8 substances or mixtures classified under CLP as explosive, organic peroxides or as oxidising;
- 9 **Serious eye damage** means the production of tissue damage in the eye, or serious physical decay of
10 vision, following application of a test substance to the anterior surface of the eye, which is not fully
11 reversible within 21 days of application;
- 12 **Signal word** means a word that indicates the relative level of severity of hazards to alert the potential
13 reader of the hazard; the following two levels are distinguished:
- 14 (a) Danger means a signal word indicating the more severe hazard categories; and
- 15 (b) Warning means a signal word indicating the less severe hazard categories;
- 16 **Skin corrosion** means the production of irreversible damage to the skin, namely visible necrosis through
17 the epidermis and into the dermis, following the application of a test substance up to 4 hours;
- 18 **Skin irritation** means the production of reversible damage to the skin following the application of a test
19 substance for up to 4 hours;
- 20 **Skin sensitiser** means a substance that will lead to an allergic response following skin contact.
- 21 **Specific target organ toxicity** means specific target organ toxicity, cf. STOT, STOT-SE and STOT-RE;
- 22 STOT means specific target organ toxicity;
- 23 STOT-RE means specific target organ toxicity arising from a repeated exposure to a substance or
24 mixture;
- 25 STOT-SE means specific target organ toxicity arising from a single exposure to a substance or mixture;
- 26 **Substance** means a chemical element and its compounds in the natural state or obtained by any
27 manufacturing process, including any additive necessary to preserve its stability and any identified
28 impurity deriving from the process used, but excluding any solvent which may be separated without
29 affecting the stability of the substance or changing its composition;
- 30 **Symbol** means a graphical element intended to succinctly convey information;
- 31 **Trade name** means a designation under which a substance or mixture is placed on the market
- 32 **TWD** means tactile warnings of danger;
- 33 **UN GHS** means the international criteria agreed by the United Nation Economic and Social Council (UN
34 ECOSOC) for the classification and labelling of hazardous substances and mixtures, called the “Globally
35 Harmonised System of Classification and Labelling of Chemicals”;
- 36 **UN RTDG** means the United Nations Recommendations on the Transport of Dangerous Goods; and
- 37 **Use** means any processing, formulation, consumption, storage, keeping, treatment, filling into containers,
38 transfer from one container to another, mixing, production of an article or any other utilisation.
- 39
- 40 **Organisations**
- 41 **Agency** means the “European Chemicals Agency,” also known as the ECHA, established under the
42 REACH Regulation;

Guidance on Labelling and Packaging in accordance with the CLP Regulation

(draft)

- 1 **CAS** means “Chemical Abstract Service”;
- 2 **Competent Authority** (CA) means the authority or authorities or bodies established by the member
- 3 States to carry out the obligations arising from the CLP Regulation;
- 4 **ECHA** means the “European Chemicals Agency,” also known as “the Agency,” established under the
- 5 REACH Regulation;
- 6 **EU** means the “European Union”;
- 7 **IUPAC** means the “International Union of Pure and Applied Chemistry”;
- 8 **UN** means the “United Nations”.

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