

**Committee of Experts on the Transport of Dangerous Goods
and on the Globally Harmonized System of Classification
and Labelling of Chemicals**

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Item 8 (e) of the provisional agenda

**Issues relating to the Globally Harmonized System
of Classification and Labelling of Chemicals:
Miscellaneous**

**Sub-Committee of Experts on the Globally Harmonized
System of Classification and Labelling of Chemicals**

Twenty-fourth session

Geneva, 12–14 December 2012

Item 2 (d) of the provisional agenda

**Updating of the Globally Harmonized System of
Classification and Labelling of Chemicals (GHS):
Annexes**

**Amendments to physical hazard precautionary statements
and use of the forward slash “/” in GHS precautionary
statements**

**Transmitted by the expert from the United Kingdom on behalf of the
informal correspondence group on Annexes 1-3 of the GHS**

1. This informal document supports document ST/SG/AC.10/C.4/2012/19 on amendments to physical hazard precautionary statements and document ST/SG/AC.10/C.4/2012/20 on use of the forward slash “/” in the precautionary statements.
2. Annex 1 contains some corrections and additions to the proposals in ST/SG/AC.10/C.4/2012/19 and ST/SG/AC.10/C.4/2012/20 that were identified at the proof-reading stage.
2. Annex 2 sets out the changes to precautionary statements in Tables, A3.2.2, A3.2.3, A3.2.4 and A3.2.5 that are proposed in documents ST/SG/AC.10/C.4/2012/19 and ST/SG/AC.10/C.4/2012/20. The changes are presented in ‘track changes’ mode together with justifications for each proposed change.
3. Annex 3 sets out in track changes mode the proposed changes to the tables in section A3.5.5 of the GHS.

Annex 1

Amendments to the proposals in ST/SG/AC.10/C.4/2012/19 on amendments to physical hazard precautionary statements

For P210

Add the following additional amendment:

Move category 4 flammable liquids to the row for flammable liquids, categories 1, 2, 3 and delete the row for flammable liquids category 4.

For P230

Add the following additional amendment:

Delete the existing condition for use (“- *if drying out increases explosion hazard, except as needed for manufacturing or operating processes (e.g. nitrocellulose)*”).

For P233

Add the following additional amendment:

For acute toxicity (categories 1, 2, 3) specific target organ toxicity (single exposure, respiratory tract irritation and narcotic effects, Category 3), amend the condition for use to read: “- *if the chemical is volatile and may generate a hazardous atmosphere.*”.

For P235

In the new condition for use for flammable liquids, add “flammable” after “other”.

For P280

Delete: “Apply the statement additionally to “Unstable explosives””.

(The statement applied already to “Unstable explosives”, no need to add this hazard category).

For P321

Delete the dash before the condition for use “Manufacturer/supplier...” and show it as plain text (i.e.: non-italicized)

For P372

Add the following additional amendment:

“For the hazard class “Explosives” (Division 1.4) add the condition for use “- *except for explosives of division 1.4 (compatibility group S) in transport packaging.*”.”

For P373

Replace the first amendment with the following:

“For the hazard class “Explosives” (Division 1.4) add the condition for use “- *except for explosives of division 1.4 (compatibility group S) in transport packaging.*”.

For P375

In the condition for use replace “1.4S” with “1.4 (compatibility group S)”.

For P302 + P335 + P334

Add the following additional amendment:

For pyrophoric solids, add the condition for use: “- *text in square brackets to be used for pyrophoric solids.*”

For P336 + P315

Amend the combination statement to read: “Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice.”.

For P370 + P378

Remove from self-reactive substances and mixtures Type B and Organic Peroxides Type B, i.e. replace the amendment with the following:

“Remove the statement from the hazard categories Self-reactive substances and mixtures, Types A and B. (Statement should only be applied to self-reactives Types C, D, E and F).

Apply additionally to Organic Peroxides, Types C, D, E and F.”.

For P370 + P372 + P380 + P373

Add the following additional amendment:

“For the hazard class “Explosives” (Division 1.4) add the condition for use “- *except for explosives of division 1.4S in transport packaging*” for the hazard class “Explosives”, Divisions 1.1, 1.2, 1.3 and 1.4.

For P370 + P380 + P375

In the condition for use for Division 1.4, replace “1.4S” with “1.4 (*compatibility group S*)”

Replace the amendment related to self-reactive substances and mixtures and organic peroxides with the following:

“Remove the statement from the hazard categories Self-reactive substances and mixtures, Types A and B.”

For P403

In the condition for use, add “flammable” after “other”.

For P403 + P235

Remove the combined statement from the hazard category 4 for Flammable liquids and from Organic Peroxides Types A, B, C, D, E, F and self-reactive substances and mixtures Types A, B, C, D, E, F.

In the new conditions for use, add “flammable” after “other.”

Add the following additional amendments to the list in document ST/SG/AC.10/C.4/2012/19:

P235 + P410

Delete this combination precautionary statement.

P302 + P334

Amend the combined statement to read: “IF ON SKIN: Immerse in cool water [or wrap in wet bandages].

Add condition for use: “- *text in square brackets to be used for pyrophoric liquids*”.

P370 + P380 + P375 [+ P378] (new)

Add a new combination statement P370 + P380 + P375 [+ P378] to read as follows: “In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use...to extinguish.]”

Add the conditions for use:

“- *text in square brackets to be used if water increases risk.*”

“...*Manufacturer/supplier or the competent authority to specify appropriate media.*”

Apply this combination statement to self-reactive substances Type B and organic peroxides Type B.

P403 + P233

Amend condition for use to read: “- *if the chemical is volatile and may generate a hazardous atmosphere*”.

P410 + P403

Amend the beginning of the condition for use to read: “*P410 may be omitted for gases...*”.

**Amendments to the proposals in ST/SG/AC.10/C.4/2012/20
on use of the forward slash ‘/’ in precautionary statements**

For P412

Amend the condition for use to read: “Manufacturer/supplier or the competent authority to use applicable temperature scale.”

For P411 and P413

Split the amendment as follows:

“P411

Amend the condition for use to read: “Manufacturer/supplier or the competent authority to use applicable temperature scale.”

P413

Amend the condition for use to read: “...Manufacturer/supplier or the competent authority to specify mass and temperature using applicable scale.”.”.

**Add the following additional amendments to the list in document
ST/SG/AC.10/C.4/2012/20:**

P314

Amend to read “Get medical advice if you feel unwell”.

Annex 2

Changes to precautionary statements in tables A3.2.2, A3.2.3, A3.2.4 and A3.2.5

Table A3.2.2: Codification of prevention precautionary statements

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P201	Obtain special instructions before use.	Explosives (chapter 2.1)	Unstable explosive		
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2		
		Carcinogenicity (chapter 3.6)	1A, 1B, 2		
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2		
		Reproductive toxicity, effects on or via lactation (chapter 3.7)	Additional category		
P202	Do not handle until all safety precautions have been read and understood.	Explosives (chapter 2.1)	Unstable explosive		<u>Proposal to delete unstable explosive:</u> Unstable explosives are deleted from P202 since covered by P201, which is shorter and more relevant from a safety point-of-view.
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2		
		Carcinogenicity (chapter 3.6)	1A, 1B, 2		
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2		
		Flammable gases (including chemically unstable gases) (chapter 2.2)	A, B (chemically unstable gases)		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sourceshot surfaces. No smoking.	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	Manufacturer/supplier or the competent authority to specify applicable ignition source(s).	<u>Proposal to amend the wording of the statement:</u> This statement is important for avoiding ignition sources and should not be limited to
		Flammable gases (chapter 2.2)	1, 2		
		Aerosols (chapter 2.3)	1, 2, 3		

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Flammable liquids (chapter 2.6)	1, 2, 3, 4		one or two specific ignition sources (such as flames and hot surfaces for flammable liquids). By listing heat, sparks, open flames and other ignition sources, the user, on the one hand, is made aware what common ignition sources are but on the other hand is also made aware that there might be further ignition sources.
		Flammable solids (chapter 2.7)	1, 2		
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F		
		Pyrophoric liquids (chapter 2.9)	1		
		Pyrophoric solids (chapter 2.10)	1		
		Oxidizing liquids (chapter 2.13)	1, 2, 3	— specify to keep away from heat.	
		Oxidizing solids (chapter 2.14)	1, 2, 3		
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F		
		Flammable liquids (chapter 2.6)	4	— specify to keep away from flames and hot surfaces.	
P211	Do not spray on an open flame or other ignition source.	Aerosols (chapter 2.3)	1, 2		
P220	Keep/Store away from clothing/and and other combustible materials.	Oxidizing gases (chapter 2.4)	1	— Manufacturer/supplier or the competent authority to specify other incompatible materials.	Proposal to amend the wording of the statement and to delete the conditions for use: For oxidizers the incompatible materials are combustible materials and these are all covered by naming clothing and combustible materials. No need to add further materials. Store is removed because it is covered by keep. 'Keep/store' is also confusing because the slash
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F		
		Oxidizing liquids (chapter 2.13)	<u>1</u> , 2, 3		
		Oxidizing solids (chapter 2.14)	<u>1</u> , 2, 3		
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F		

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
					<p>normally indicates a choice between two or more phrases.</p> <p><u>Proposal to move category 1 from below (no separate lines are needed):</u></p> <p>Category 1 is added here and deleted below.</p> <p><u>Proposal to delete self-reactives and organic peroxides:</u></p> <p>The wording of P220 (even in its original form) aims at oxidizing properties (the need to keep away from clothing applies only to oxidizers). Since self-reactives and organic peroxides do not have oxidizing properties this statement is not as appropriate as e.g. P420. P220 therefore should be removed for self-reactives and organic peroxides.</p>
		Oxidizing liquids (chapter 2.13)	1	—specify to keep away from clothing and other combustible materials.	<u>Proposal to move category 1 from here to category 2 and 3 above (see above).</u>
		Oxidizing solids (chapter 2.14)	1		
P221	Take any precaution to avoid mixing with combustibles/...	Oxidizing liquids (chapter 2.13)	1, 2, 3	... Manufacturer/supplier or the competent authority to specify other incompatible materials.	<u>Proposal to delete P221:</u> P221 is redundant because the information is contained in P220 which applies to all categories of oxidizers.
		Oxidizing solids (chapter 2.14)	1, 2, 3		

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P222	Do not allow contact with air.	Pyrophoric liquids (chapter 2.9)	1	<i><u>- if emphasis of the hazard statement is deemed necessary.</u></i>	Proposal to add conditions for use: H250 "Catches fire spontaneously if exposed to air" already covers this and is always assigned.
		Pyrophoric solids (chapter 2.10)	1		
P223	Do not allow contact with water.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2	<i><u>- if emphasis of the hazard statement is deemed necessary.</u></i>	Proposal to add conditions for use: H260 "In contact with water releases flammable gases, which may ignite spontaneously" and H261 "In contact with water releases flammable gas" already cover this and are always assigned.
P230	Keep wetted with ...	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.5	<i><u>- 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).</u></i> ... Manufacturer/supplier or the competent authority to specify appropriate material. <i>— if drying out increases explosion hazard, except as needed for manufacturing or operating processes (e.g. nitrocellulose).</i>	Proposal to amend the conditions for use: "Normal" explosives are not wetted and therefore this statement would not apply to them. It has to be clarified that this statement applies only to desensitized explosives. NOTE: may need to be revisited once work on desensitised explosives is complete.

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P231	Handle <u>and store contents</u> under inert gas/...	Pyrophoric liquids (chapter 2.9)	<u>1</u>	<i>... Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if "inert gas" is not appropriate.</i>	<p><u>Proposal to amend the wording of the statement:</u> More clear and specifies that the appropriate liquid or gas has to be specified if inert gas is not sufficient (e.g. white phosphorous under water)</p> <p><u>Proposal to add pyrophoric liquids and solids:</u> Necessary, especially if to be handled under something else than inert gas.</p> <p><u>Proposal to add conditions for use:</u> An explanation is needed what is expected to add for the dots.</p>
		Pyrophoric solids (chapter 2.10)	<u>1</u>		
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	<p><i>- if the substance or mixture reacts readily with moisture in air.</i></p> <p><i>... Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if "inert gas" is not appropriate.</i></p>	
P232	Protect from moisture.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3		
P233	Keep container tightly closed.	Flammable liquids (chapter 2.6)	1, 2, 3	<i>- if the liquid is volatile and may generate an explosive atmosphere.</i>	<p><u>Proposal to amend the conditions for use:</u> The term "product" is not used in the GHS and the statement applies to liquids only. Explosive atmosphere is more specific than hazardous atmosphere, because the conditions for use only apply to flammable liquids.</p>
		Pyrophoric liquids (chapter 2.9)	<u>1</u>		<u>Proposal to add pyrophoric liquids and solids:</u>
		Pyrophoric solids (chapter 2.10)	<u>1</u>		

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	- <i>if the product chemical is volatile so as to and may generate a hazardous atmosphere.</i>	Obviously highly appropriate (in order to avoid ignition of the pyrophoric substance upon contact with air). <u>Proposal to amend condition for use:</u> To make the wording consistent with the amended condition for flammable liquids proposed above.
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3		
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3		
P234	Keep only in original container packaging.	<u>Explosives (chapter 2.1)</u>	<u>Divisions 1.1, 1.2, 1.3, 1.4, 1.5</u>		<u>Proposal to amend the wording of the statement:</u> "Packaging" is the terminology used in transport. And the reason for assigning P234 to explosives, self-reactives and organic peroxides is that the classification is dependent on the (transport) packaging, and changing the packaging could substantially increase the hazard. <u>Proposal to add explosives:</u> Classification is packaging dependent. <u>Proposal to amend the name of the hazard class for corrosive to metals:</u> In line with the actual name of the hazard class.
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F		
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F		
		Substances and mixtures <u>eCorrosive to metals (chapter 2.16)</u>	1		

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P235	Keep cool.	Flammable liquids (chapter 2.6)	1, 2, 3, 4	<i>- for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.</i>	<u>Proposal to delete category 4:</u> Flash point is above 60 °C, therefore the statement is not necessary for this category 4. <u>Proposal to add conditions for use:</u> Clarification for which substances the statement is most appropriate.
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	<i>- may be omitted if P411 is given on the label.</i>	<u>Proposal to add precedence rule</u> P411 requires storage at specific temperatures, so is more precise than P235 and makes it redundant.
		Self-heating substances and mixtures (chapter 2.11)	1, 2	<i>- may be omitted if P413 is given on the label.</i>	<u>Proposal to add precedence rule</u> P413 gives more precise instructions regarding storage temperatures so makes P235 redundant.
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	<i>- may be omitted if P411 is given on the label.</i>	<u>Proposal to add precedence rule</u> P411 requires storage at specific temperatures, so is more precise than P235 and makes it redundant.

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P240	Ground/and bond container and receiving equipment.	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	- <i>if the explosive is electrostatically sensitive.</i>	<u>Proposal to re-word precautionary statement to say ‘ground and bond’.</u> Here the slash is inappropriate because the intention is that both ‘ground’ and ‘bond’ appear on the label. Both precautions should generally be taken, so the wording should be ‘ground and bond’.
		Flammable liquids (chapter 2.6)	1, 2, 3	—if electrostatically sensitive material is for reloading. - <i>if productthe liquid is volatile so as to and may generate hazardous an explosive atmosphere.</i>	<u>Proposal to amend the conditions for use for flammable liquids:</u> More appropriate and specific.
		Flammable solids (chapter 2.7)	1, 2	- <i>if the solid is electrostatically sensitive material is for reloading.</i>	<u>Proposal to amend the conditions for use for flammable solids:</u> More appropriate
		<u>Self-reactive substances and mixtures (chapter 2.8)</u>	<u>Types A, B, C, D, E, F</u>	- <i>if electrostatically sensitive and able to generate an explosive atmosphere</i>	<u>Proposal to add self-reactives and organic peroxides:</u> Appropriate for self-reactives and organic peroxides as well under the respective conditions for use.
<u>Organic peroxides (chapter 2.15)</u>	<u>Types A, B, C, D, E, F</u>				

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.	Flammable liquids (chapter 2.6)	1, 2, 3	<p>--- Manufacturer/supplier or the competent authority to specify other equipment.</p> <ul style="list-style-type: none"> - <u>if the liquid is volatile and may generate an explosive atmosphere.</u> - <u>may be omitted where local or national legislation introduces more specific provisions.</u> - <u>text in square brackets may be used to specify specific electrical, ventilating, lighting or other equipment if necessary and as appropriate.</u> 	<p><u>Proposal to amend the wording of the statement:</u> Explosion proof equipment includes ventilating, lighting etc. Therefore "Use explosion-proof equipment" normally is sufficient. However, some countries might be of the opinion that this should be further elaborated. The statement therefore can be amended by adding specific equipment such as electrical, ventilating or lighting equipment (dots added). However, the slash is still appropriate because the manufacturer/supplier should choose which specific type of equipment to mention in the statement.</p> <p><u>Proposal to amend the conditions for use:</u> More specific for which flammable liquids this statement applies. In addition it is pointed out that - if more specific provisions exist - this statement is not necessary and could be misleading because it may not fully correspond to local/national requirements.</p>
		Flammable solids (chapter 2.7)	1, 2	<p>--- Manufacturer/supplier or the competent authority to specify other equipment.</p> <ul style="list-style-type: none"> - <u>if dust clouds can occur.</u> - <u>may be omitted where local or national legislation introduces more specific provisions.</u> - <u>text in square brackets may be used to specify specific electrical, ventilating, lighting or other equipment if necessary and as appropriate.</u> 	

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P242	Use only non-sparking tools.	Flammable liquids (chapter 2.6)	1, 2, 3	- <u>if the liquid is volatile and may generate an explosive atmosphere and if the minimum ignition energy is very low. (This applies to substances and mixtures where the minimum ignition energy is <0.1mJ, e.g. carbon disulfide).</u>	<p><u>Proposal to add conditions for use:</u> In principle we think this statement is not needed with regard to labelling of chemicals and therefore would prefer its deletion. It has a very limited applicability, see left. Moreover, P242 is covered by P241 (non-sparking tools are specific equipment which then could be mentioned in P241). However, if not deleted, the conditions for use should be as specific as possible.</p>
P243	Take precautionary measures against <u>action to prevent static discharges.</u>	Flammable liquids (chapter 2.6)	1, 2, 3	<p>- <u>if the liquid is volatile and may generate an explosive atmosphere.</u> - <u>may be omitted where local or national legislation introduces more specific provisions.</u></p>	<p><u>Proposal to amend the wording of the statement:</u> Shorter and clearer. <u>Proposal to add conditions for use:</u> More specific for which flammable liquids this statement applies. In addition it is pointed out that - if more specific provisions exist - this statement is not necessary and could be misleading because it may not fully correspond to local/national requirements.</p>

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P244	Keep valves and fittings free from oil and grease.	Oxidizing gases (chapter 2.4)	1		
P250	Do not subject to grinding/shock/ .../ friction ..	Explosives (chapter 2.1)	<u>Unstable explosive</u> <u>and</u> <u>D</u> ivisions 1.1, 1.2, 1.3, 1.4, 1.5	<i>- if the explosive is mechanically sensitive</i> ... Manufacturer/supplier or the competent authority to specify applicable rough handling.	<u>Proposal to add unstable explosives:</u> Applies just as for the other divisions. <u>Proposal to amend the conditions for use:</u> Clarification that this statement applies only if the explosive is mechanically sensitive. handling. <u>Proposal to move the ‘...’</u> To make clear that the manufacturer/supplier should choose between grinding, shock, friction, and/or any other form of rough handling. The slash is appropriate because the manufacturer/supplier should choose between “grinding”, “shock”, etc. – so no change proposed.
P251	Do not pierce or burn, even after use.	Aerosols (chapter 2.3)	1, 2, 3		

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	Acute toxicity – inhalation (chapter 3.1)	1, 2	Manufacturer/supplier or the competent authority to specify applicable conditions.	Slash is appropriate because manufacturer/supplier or the competent authority should choose the applicable words.
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2		
		Specific target organ toxicity, repeated exposure (chapter 3.9)	1, 2		
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	specify do not breathe dusts or mists	
		Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category	- if inhalable particles of dusts or mists may occur during use. - specify do not breathe dusts or mists	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	Acute toxicity – inhalation (chapter 3.1)	3, 4	- may be omitted if P260 is given on the label.	Slash is appropriate because manufacturer/supplier or the competent authority should choose the applicable words.
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	Manufacturer/supplier or the competent authority to specify applicable conditions.	
		Skin sensitization (chapter 3.4)	1, 1A, 1B		
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3		
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3		
P262	Do not get in eyes, on skin, or on clothing.	Acute toxicity – dermal (chapter 3.1)	1, 2		
P263	Avoid contact during pregnancy† and while nursing.	Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category		<u>Proposal to re-word</u> The manufacturer/supplier or competent authority in this case is not supposed to choose whether to include the text ‘during pregnancy’ or

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
					'while nursing' – both should be included.
P264	Wash ... thoroughly after handling.	Acute toxicity – oral (chapter 3.1)	1, 2, 3, 4	... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.	
		Acute toxicity – dermal (chapter 3.1)	1, 2		
		Skin corrosion (chapter 3.2)	1A, 1B, 1C		
		Skin irritation (chapter 3.2)	2		
		Eye irritation (chapter 3.3)	2A, 2B		
		Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category		
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2		
Specific target organ toxicity, repeated exposure (chapter 3.9)	1				
P270	Do not eat, drink or smoke when using this product.	Acute toxicity – oral (chapter 3.1)	1, 2, 3, 4		
		Acute toxicity – dermal (chapter 3.1)	1, 2		
		Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category		
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2		
		Specific target organ toxicity, repeated exposure (chapter 3.9)	1		
P271	Use only outdoors or in a well-ventilated area.	Acute toxicity – inhalation (chapter 3.1)	1, 2, 3, 4		
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3		
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3		

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P272	Contaminated work clothing should not be allowed out of the workplace.	Skin sensitization (chapter 3.4)	1, 1A, 1B		
P273	Avoid release to the environment.	Hazardous to the aquatic environment, acute hazard (chapter 4.1)	1, 2, 3	- <i>if this is not the intended use.</i>	
		Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	1, 2, 3, 4		
P280	Wear protective gloves/protective clothing/eye protection/face protection.	Explosives (chapter 2.1)	Unstable explosives and divisions 1.1, 1.2, 1.3, 1.4, 1.5	<p>—Specify face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p> <p>—Specify protective gloves and eye/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.</p>	Slash is appropriate because manufacturer/supplier or the competent authority should choose which phrase is appropriate. <u>Proposal to add unstable explosives:</u> Applies just as for the other divisions. <u>Proposal to amend the conditions for use:</u> Face protection is not always appropriate, appropriate protection should rather be specified.
		Flammable liquids (chapter 2.6)	1, 2, 3, 4		<u>Proposal to amend the conditions for use:</u>
		Flammable solids (chapter 2.7)	1, 2		Appropriate protection should be specified.
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F		
		Pyrophoric liquids (chapter 2.9)	1		
		Pyrophoric solids (chapter 2.10)	1		
		Self-heating substances and mixtures	1, 2		

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		(chapter 2.11)			
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3		
		Oxidizing liquids (chapter 2.13)	1, 2, 3		
		Oxidizing solids (chapter 2.14)	1, 2, 3		
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F		
		Acute toxicity – dermal (chapter 3.1)	1, 2, 3, 4	- <i>Specify protective gloves/clothing.</i> Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	- <i>Specify protective gloves/clothing and eye/face protection.</i> Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.	
		Skin irritation (chapter 3.2)	2	- <i>Specify protective gloves.</i>	
		Skin sensitization (chapter 3.4)	1, 1A, 1B	Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.	
		Severe eye damage (chapter 3.3)	1	- <i>Specify eye/face protection.</i>	
		Eye irritation (chapter 3.3)	2A	Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.	
		Germ cell mutagenicity (chapter	1A, 1B, 2	Manufacturer/supplier or the	

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		3.5)		competent authority to specify the appropriate type of equipment.	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2		
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2		
P282	Wear cold insulating gloves <u>and</u> either face shield <u>or</u> eye protection.	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas		<u>Proposal to re-word</u> The manufacturer/supplier or competent authority is not supposed to choose which phrase to use – all should go on the label. The correct precaution is to use cold insulating gloves, and either a face shield or eye protection.
P283	Wear fire <u>resistant</u> or flame <u>resistant</u>/retardant clothing.	Oxidizing liquids (chapter 2.13) Oxidizing solids (chapter 2.14)	1 1		<u>Proposal to re-word:</u> The manufacturer/supplier is not supposed to choose between ‘fire’ and ‘flame’ or between ‘resistant’ or ‘retardant’ – ‘fire resistant or flame retardant’ is clearer.
P284	[In case of inadequate ventilation] wear respiratory protection.	Acute toxicity, inhalation (chapter 3.1) Respiratory sensitization (chapter 3.4)	1, 2 1, 1A, 1B	<i>– text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use. Manufacturer/supplier or the competent authority to specify equipment.</i>	
P231 + P232	Handle and store contents under inert gas/.... Protect from moisture.	Pyrophoric liquids (chapter 2.9) Pyrophoric solids (chapter 2.10)	1 1	<i>–if the substance or mixture reacts readily with moisture in air.</i>	<u>Consequential amendment from P231 above:</u>

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
				... Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if “inert gas” is not appropriate.	<u>Proposal to amend the wording of the statement:</u> More clear and specifies that the appropriate liquid or gas has to be specified if inert gas is not sufficient (e.g. white phosphorous under water)
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	<u>- if the substance or mixture reacts readily with moisture in air.</u> ... Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if “inert gas” is not appropriate.	<u>Proposal to add pyrophoric liquids and solids:</u> Necessary especially if to be handled under something else than inert gas. <u>Proposal to add conditions for use:</u> An explanation is needed of what to add in place of the dots.
P235 + P410	Keep cool. Protect from sunlight.	Self-heating substances and mixtures (chapter 2.11)	1, 2	May be omitted if P413 is given on the label	<u>Proposal to delete this combined precautionary statement:</u> It is proposed above to add a new condition for P235 for certain hazard categories (“- may be omitted if P411 is given on the label”). However this does not apply to P410 (Protect from sunlight). Therefore it is clearer to delete this combined statement and include the P235 and P410 separately under Prevention and Storage respectively so that the appropriate

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
					conditions of use can be applied.

Table A3.2.3: Codification of response precautionary statements

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P301	IF SWALLOWED:	Acute toxicity, oral (chapter 3.1)	1, 2, 3, 4		
		Skin corrosion (chapter 3.2)	1A, 1B, 1C		
		Aspiration hazard (chapter 3.10)	1, 2		
P302	IF ON SKIN:	Pyrophoric liquids (chapter 2.9)	1		
		Pyrophoric solids (chapter 2.10)	<u>1</u>		<u>Proposal to add pyrophoric solids:</u> Pyrophoric solids have to be added because they have P335 + P334 assigned which need to be combined with if "on skin:".
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	<u>1, 2</u>		<u>Proposal to add water-reactives, cat. 1 and 2:</u> Water-reactives cat. 1 and 2 have to be added because they have P335 + P334 assigned which need to be combined with if "on skin:".
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3, 4		
		Skin irritation (chapter 3.2)	2		
		Skin sensitization (chapter 3.4)	1, 1A, 1B		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P303	IF ON SKIN (or hair):	Flammable liquids (chapter 2.6)	1, 2, 3		
		Skin corrosion (chapter 3.2)	1A, 1B, 1C		
P304	IF INHALED:	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3, 4, 5		
		Skin corrosion (chapter 3.2)	1A, 1B, 1C		
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B		
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3		
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3		
P305	IF IN EYES:	Skin corrosion (chapter 3.2)	1A, 1B, 1C		
		Severe eye damage (chapter 3.3)	1		
		Eye irritation (chapter 3.3)	2A, 2B		
P306	IF ON CLOTHING:	Oxidizing liquids (chapter 2.13)	1		
		Oxidizing solids (chapter 2.14)	1		
P308	IF exposed or concerned:	Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2		
		Carcinogenicity (chapter 3.6)	1A, 1B, 2		
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2		
		Reproductive toxicity, effects on or via lactation (chapter 3.7)	Additional category		
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2		
P310	Immediately call a POISON CENTER/doctor/...	Acute toxicity, oral (chapter 3.1)	1, 2, 3	...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.	No change – the manufacturer/supplier or the competent authority should choose between the text separated by slash in this case.
		Acute toxicity, dermal (chapter 3.1)	1, 2		
		Acute toxicity, inhalation (chapter 3.1)	1, 2		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Skin corrosion (chapter 3.2)	1A, 1B, 1C		
		Severe eye damage (chapter 3.3)	1		
		Aspiration hazard (chapter 3.10)	1, 2		
P311	Call a POISON CENTER/doctor/...	Acute toxicity, inhalation (chapter 3.1)	3	...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.	
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B		
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2		
P312	Call a POISON CENTER/doctor/.../if you feel unwell.	Acute toxicity, oral (chapter 3.1)	4	...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.	
		Acute toxicity, oral (chapter 3.1)	5		
		Acute toxicity, dermal (chapter 3.1)	3, 4, 5		
		Acute toxicity, inhalation (chapter 3.1)	4		
		Acute toxicity, inhalation (chapter 3.1)	5		
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3		
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3		
P313	Get medical advice/ attention .	Skin irritation (chapter 3.2)	2, 3		<u>Proposal to re-word:</u> The slash is unnecessary here and the precaution is adequately covered by the word 'advice'.
		Eye irritation (chapter 3.3)	2A, 2B		
		Skin sensitization (chapter 3.4)	1, 1A, 1B		
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2		
		Carcinogenicity (chapter 3.6)	1A, 1B, 2		
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Reproductive toxicity, effects on or via lactation (chapter 3.7)	Additional category		
P314	Get medical advice/attention if you feel unwell.	Specific target organ toxicity, repeated exposure (chapter 3.9)	1, 2		<u>Proposal to re-word:</u> See P313 above
P315	Get immediate medical advice/attention.	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas		<u>Proposal to re-word:</u> See P313 above
P320	Specific treatment is urgent (see ... on this label).	Acute toxicity, inhalation (chapter 3.1)	1, 2	- if immediate administration of antidote is required. ... Reference to supplemental first aid instruction.	
P321	Specific treatment (see ... on this label).	Acute toxicity, oral (chapter 3.1)	1, 2, 3	- if immediate administration of antidote is required. ... Reference to supplemental first aid instruction.	
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3, 4	- if immediate measures such as specific cleansing agent is advised. ... Reference to supplemental first aid instruction.	
		Acute toxicity, inhalation (chapter 3.1)	3	- if immediate specific measures are required. ... Reference to supplemental first aid instruction.	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	Manufacturer/supplier or competent authority may	
		Skin irritation (chapter 3.2)	2		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Skin sensitization (chapter 3.4)	1, 1A, 1B	specify a cleansing agent if appropriate. ... Reference to supplemental first aid instruction.	
		Specific target organ toxicity, single exposure (chapter 3.8)	1	- <i>if immediate measures are required.</i> ... Reference to supplemental first aid instruction.	
P330	Rinse mouth.	Acute toxicity, oral (chapter 3.1)	1, 2, 3, 4		
		Skin corrosion (chapter 3.2)	1A, 1B, 1C		
P331	Do NOT induce vomiting.	Skin corrosion (chapter 3.2)	1A, 1B, 1C		
		Aspiration hazard (chapter 3.10)	1, 2		
P332	If skin irritation occurs:	Skin irritation (chapter 3.2)	2, 3		
P333	If skin irritation or rash occurs:	Skin sensitization (chapter 3.4)	1, 1A, 1B		
P334	Immerse in cool water^[or wrap in wet bandages].	Pyrophoric liquids (chapter 2.9)	1	<i>- text in square brackets to be used for pyrophoric liquids and solids.</i>	Proposal to re-word and add condition for use: For these hazard classes the manufacturer/supplier or competent authority should not choose between ‘immerse in cool water’ and ‘wrap in wet bandages’ – both options should appear on the label. However use of square brackets is suggested, since for water-reactives, only ‘immerse in cool water’ is appropriate (see below).
		Pyrophoric solids (chapter 2.10)	1		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2	<i>- Use only "Immerse in cool water." Text in square brackets should not be used.</i>	<u>Proposal to amend the conditions for use for water-reactives</u> A lot of water (for which wet bandages are not enough) is needed in order to be safe because otherwise the heat of reaction will cause a problem.
P335	Brush off loose particles from skin.	Pyrophoric solids (chapter 2.10) Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1 1, 2		
P336	Thaw frosted parts with lukewarm water. Do not rub affected area.	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas		
P337	If eye irritation persists:	Eye irritation (chapter 3.3)	2A, 2B		
P338	Remove contact lenses, if present and easy to do. Continue rinsing.	Skin corrosion (chapter 3.2) Severe eye damage (chapter 3.3) Eye irritation (chapter 3.3)	1A, 1B, 1C 1 2A, 2B		
P340	Remove person to fresh air and keep comfortable for breathing.	Acute toxicity, inhalation (chapter 3.1) Skin corrosion (chapter 3.2) Respiratory sensitization (chapter 3.4) Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	1, 2, 3, 4 1A, 1B, 1C 1, 1A, 1B 3 3		
P342	If experiencing respiratory symptoms:	Respiratory sensitization (chapter 3.4)	1, 1A, 1B		
P351	Rinse cautiously with water for	Skin corrosion (chapter 3.2)	1A, 1B, 1C		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
	several minutes.	Severe eye damage (chapter 3.3) Eye irritation (chapter 3.3)	1 2A, 2B		
P352	Wash with plenty of water/...	Acute toxicity, dermal (chapter 3.1) Skin irritation (chapter 3.2) Skin sensitization (chapter 3.4)	1, 2, 3, 4 2 1, 1A, 1B	...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.	No amendment needed because manufacturer/supplier or the competent authority should choose the applicable cleansing agent.
P353	Rinse skin with water for <u>shower</u> .	Flammable liquids (chapter 2.6) Skin corrosion (chapter 3.2)	1, 2, 3 1A, 1B, 1C	<i>- text in square brackets to be included where the manufacturer/supplier or the competent authority consider it appropriate for the specific chemical.</i>	<u>Proposal to put the word 'shower' in square brackets.</u> The reference to 'water' is sufficient in most cases but for some chemical exposures a deluge shower might be appropriate. Use of square brackets allows the manufacturer/supplier or the competent authority to choose the appropriate wording for the specific chemical in question, see para A3.2.3.7 of the GHS.
P360	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.	Oxidizing liquids (chapter 2.13) Oxidizing solids (chapter 2.14)	1 1		
P361	Take off immediately all contaminated clothing.	Flammable liquids (chapter 2.6) Acute toxicity, dermal (chapter 3.1) Skin corrosion (chapter 3.2)	1, 2, 3 1, 2, 3 1A, 1B, 1C		
P362	Take off contaminated clothing.	Acute toxicity, dermal (chapter 3.1)	4		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Skin irritation (chapter 3.2)	2		
		Skin sensitization (chapter 3.4)	1, 1A, 1B		
P363	Wash contaminated clothing before reuse.	Skin corrosion (chapter 3.2)	1A, 1B, 1C		
P364	And wash it before reuse.	Acute toxicity, dermal (chapter 3.1)	1, 2, 3, 4		
		Skin irritation (chapter 3.2)	2		
		Skin sensitization (chapter 3.4)	1, 1A, 1B		
P370	In case of fire:	Explosives (chapter 2.1)	<u>Unstable explosives</u> <u>and</u> <u>Divisions</u> 1.1, 1.2, 1.3, 1.4, 1.5		<u>Proposal to add unstable explosives:</u> Needed for combination with P380 just as for the other explosives divisions.
		Oxidizing gases (chapter 2.4)	1		
		Flammable liquids (chapter 2.6)	1, 2, 3, 4		
		Flammable solids (chapter 2.7)	1, 2		
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F		
		Pyrophoric liquids (chapter 2.9)	1		
		Pyrophoric solids (chapter 2.10)	1		
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3		
		Oxidizing liquids (chapter 2.13)	1, 2, 3		
		Oxidizing solids (chapter 2.14)	1, 2, 3		
		<u>Organic peroxides (chapter 2.15)</u>	<u>Types A, B, C, D, E, F</u>		<u>Proposal to add organic peroxides:</u> In analogy to self-reactives (they have the same hazard).
P371	In case of major fire and large	Oxidizing liquids (chapter 2.13)	1		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
	quantities:	Oxidizing solids (chapter 2.14)	1		
P372	Explosion risk, in case of fire.	Explosives (chapter 2.1)	Unstable explosives and Divisions 1.1, 1.2, 1.3 and, 1.4, 1.5 <u>Division 1.4</u>	except if explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF. except for explosives of division 1.4 (compatibility group S) in transport packaging.	<u>Proposal to amend the text of the statement:</u> As P370 "In case of fire" is assigned anyway it can conveniently be combined with "Explosion risk" instead of "Explosion risk in case of fire" (see below the combination statements). <u>Proposal to amend conditions for use for Division 1.4:</u> Division 1.4 (compatibility group S) is only assigned if there are no hazardous effects outside the package (see also Figure 2.3 of the GHS). Therefore this precautionary statement is not necessary for explosives classified in this way.
		<u>Self-reactive substances and mixtures (chapter 2.8)</u>	<u>Type A</u>		<u>Proposal to add self-reactives and organic peroxides, Type A:</u>
		<u>Organic peroxides (chapter 2.15)</u>	<u>Type A</u>		Must have been omitted originally (same hazard as unstable explosives). Needed for combination of P370 + P380 + P372 + P373 as proposed below.
P373	DO NOT fight fire when fire reaches explosives.	Explosives (chapter 2.1)	Unstable explosives and Divisions 1.1, 1.2, 1.3; 1.4 and 1.5		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
			Division 1.4	<i>- except for explosives of division 1.4 (compatibility group S) in transport packaging.</i>	Proposal to add conditions for use: Division 1.4S is only assigned if there are no hazardous effects outside the package (see also Figure 2.3 of the GHS) so that a fire can be fought. Therefore P375 is more appropriate for 1.4S – if in the transport packaging (see below).
		Self-reactive substances and mixtures (chapter 2.8)	Type A		Proposal to add self-reactives and organic peroxides, Type A:
		Organic peroxides (chapter 2.15)	Type A		Must have been omitted originally (same hazard as unstable explosives). Needed for combination of P370 + P380 + P372 + P373 as proposed below.
P374	Fight fire with normal precautions from a reasonable distance.	Explosives (chapter 2.1)	Division 1.4	<i>if explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF.</i>	Proposal to move division 1.4 to P375: P375 is more appropriate (and cautious) than P374 because reference to an explosion risk should be maintained for class 1 substances (even for division 1.4S), which is not mentioned when using P374.

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P375	Fight fire remotely due to the risk of explosion.	Explosives (chapter 2.1)	Division 1.4	<i>- for explosives of division 1.4 (compatibility group S) in transport packaging.</i>	<u>Proposal to move division 1.4 from P374:</u> P375 is more appropriate than P374 for class 1 because reference to an explosion risk should be maintained which is not mentioned when using P374 (even for division 1.4S), which is not mentioned when using P374.
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B		<u>Proposal to delete self-reactives, Type A:</u> P373 should apply instead. It is dangerous to fight a fire of Type A substances (same hazard as unstable explosives) and should always be advised against.
		Oxidizing liquids (chapter 2.13)	1		
		Oxidizing solids (chapter 2.14)	1		
		Organic peroxides (chapter 2.15)	Type B		<u>Proposal to add organic peroxides:</u> In analogy to self-reactives (they have the same hazard).
P376	Stop leak if safe to do so.	Oxidizing gases (chapter 2.4)	1		
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.	Flammable gases (chapter 2.2)	1, 2		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P378	Use ... to extinguish.	Flammable liquids (chapter 2.6)	1, 2, 3, 4	- <i>if water increases risk.</i> ... Manufacturer/supplier or the competent authority to specify appropriate media	
		Flammable solids (chapter 2.7)	1, 2		
		Self-reactive substances and mixtures (chapter 2.8)	Types A , B, C, D, E, F		<u>Proposal to delete self-reactives, Type A:</u> P373 should apply instead. It is dangerous to fight a fire of Type A substances (same hazard as unstable explosives) and should always be advised against.
		Pyrophoric liquids (chapter 2.9)	1		
		Pyrophoric solids (chapter 2.10)	1		
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3		
		Oxidizing liquids (chapter 2.13)	1, 2, 3		
		Oxidizing solids (chapter 2.14)	1, 2, 3		
		Organic peroxides (chapter 2.15)	Types B, C, D, E, F		<u>Proposal to add organic peroxides:</u> In analogy to self-reactives (they have the same hazard).
P380	Evacuate area.	Explosives (chapter 2.1)	Unstable explosives		
		Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5		
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B		
		Oxidizing liquids (chapter 2.13)	1		
		Oxidizing solids (chapter 2.14)	1		
		Organic peroxides (chapter 2.15)	Types A and B	<u>Proposal to add organic peroxides:</u> In analogy to self-reactives	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P381	<u>In case of leakage, eliminate all ignition sources</u> if safe to do so.	Flammable gases (chapter 2.2)	1, 2		<p>(they have the same hazard).</p> <p><u>Proposal to add ‘in case of leakage’ and delete ‘if safe to do so’</u></p> <p>‘In case of leakage’ added because the precaution to eliminate ignition sources is important for all flammable gas leaks (where the leaking gas is not burning) since in such cases an explosive atmosphere may be generated.</p> <p>The qualifier ‘if safe to do so’ is not necessary and could discourage quick action.</p> <p>Elsewhere ‘if safe to do so’ is added because there may be a fire which could make the precaution unsafe (e.g. P370 + P376, ‘In case of fire: stop leak if safe to do so’). However the precaution to eliminate all ignition sources is most important where there is a flammable gas leakage which is not burning and there is no fire that might hinder elimination of possible ignition sources.</p>
P390	Absorb spillage to prevent material-damage.	Substances and mixtures Corrosive to metals (chapter 2.16)	1		<p><u>Proposal to amend the name of the hazard class for corrosive to metals:</u></p> <p>In line with the actual name of the hazard class.</p>

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P391	Collect spillage.	Hazardous to the aquatic environment, acute hazard (chapter 4.1)	1		
		Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	1, 2		
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...	Acute toxicity, oral (chapter 3.1)	1, 2, 3	...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.	
		Aspiration hazard (chapter 3.10)	1, 2		
P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor/.../if you feel unwell.	Acute toxicity, oral (chapter 3.1)	4	...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	Skin corrosion (chapter 3.2)	1A, 1B, 1C		
P302 + P334	IF ON SKIN: Immerse in cool water <u>[or/]</u> wrap in wet bandages.	Pyrophoric liquids (chapter 2.9)	1	<i>- text in square brackets to be used for pyrophoric liquids and solids.</i>	
P302 ± P335 + P334	IF ON SKIN: Brush off loose particles from skin. Immerse in cool water <u>[or/]</u> wrap in wet bandages.	Pyrophoric solids (chapter 2.10)	1	<i>- text in square brackets to be used for pyrophoric liquids and solids.</i>	Consequential amendment: See above the justification for P302 and for P334.
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2	<i>- Use only "Immerse in cool water." Text in square brackets should not be used.</i>	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P302 + P352	IF ON SKIN: Wash with plenty of water/...	Acute toxicity, dermal (chapter 3.1)	1, 2, 3, 4	...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.	
		Skin irritation (chapter 3.2)	2		
		Skin sensitization (chapter 3.4)	1, 1A, 1B		
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or /shower].	Flammable liquids (chapter 2.6)	1, 2, 3	<i>- text in square brackets to be included where the manufacturer/supplier or the competent authority consider it appropriate for the specific chemical.</i>	Consequential amendment: see above justification for P353.
		Skin corrosion (chapter 3.2)	1A, 1B, 1C		
P304 + P312	IF INHALED: Call a POISON CENTER/doctor/.../if you feel unwell.	Acute toxicity, inhalation (chapter 3.1)	5	...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3, 4		
		Skin corrosion (chapter 3.2)	1A, 1B, 1C		
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B		
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3		
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3		
P305 +	IF IN EYES: Rinse cautiously with water for several minutes.	Skin corrosion (chapter 3.2)	1A, 1B, 1C		
		Severe eye damage (chapter 3.3)	1		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P351 + P338	Remove contact lenses, if present and easy to do. Continue rinsing.	Eye irritation (chapter 3.3)	2A, 2B		
P306 + P360	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.	Oxidizing liquids (chapter 2.13) Oxidizing solids (chapter 2.14)	1 1		
P308 + P311	IF exposed or concerned: Call a POISON CENTER/doctor/...	Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.	
P308 + P313	IF exposed or concerned: Get medical advice/attention.	Germ cell mutagenicity (chapter 3.5) Carcinogenicity (chapter 3.6) Reproductive toxicity (chapter 3.7) Reproductive toxicity, effects on or via lactation (chapter 3.7)	1A, 1B, 2 1A, 1B, 2 1A, 1B, 2 Additional category		<u>Proposal to re-word:</u> See P313 above.
P332 + P313	If skin irritation occurs: Get medical advice/attention.	Skin irritation (chapter 3.2)	2, 3	<i>– may be omitted when P333+P313 appears-is given on the label.</i>	<u>Proposal to re-word:</u> See P313 above.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.	Skin sensitization (chapter 3.4)	1, 1A, 1B		<u>Proposal to re-word:</u> See P313 above.
<u>P336</u> + <u>P315</u>	<u>Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice.</u>	<u>Gases under pressure (chapter 2.5)</u>	<u>Refrigerated liquefied gas</u>		<u>No change, just a new combination because P315 "Get immediate medical advice" has to follow something.</u>
P337 + P313	If eye irritation persists: Get medical advice/attention.	Eye irritation (chapter 3.3)	2A, 2B		<u>Proposal to re-word:</u> See P313 above.

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...	Respiratory sensitization (chapter 3.4)	1, 1A, 1B	...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.	
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.	Acute toxicity, dermal (chapter 3.1)	1, 2, 3		
P362 + P364	Take off contaminated clothing and wash it before reuse.	Acute toxicity, dermal (chapter 3.1)	4		
		Skin irritation (chapter 3.2)	2		
		Skin sensitization (chapter 3.4)	1, 1A, 1B		
P370 + P376	In case of fire: Stop leak if safe to do so.	Oxidizing gases (chapter 2.4)	1		
P370 + P378	In case of fire: Use ... to extinguish.	Flammable liquids (chapter 2.6)	1, 2, 3, 4	- if water increases risk. ... Manufacturer/supplier or the competent authority to specify appropriate media.	
		Flammable solids (chapter 2.7)	1, 2		
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F		
		Pyrophoric liquids (chapter 2.9)	1		
		Pyrophoric solids (chapter 2.10)	1		
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3		
		Oxidizing liquids (chapter 2.13)	1, 2, 3		
		Oxidizing solids (chapter 2.14)	1, 2, 3		
					<u>Consequential amendment:</u> See above the justification for P378 Type B removed because this is covered by the new combination statement P370 + P380 + P375 + P378 (see below)

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Organic peroxides (chapter 2.15)	Types B , C, D, E, F		<u>Consequential amendment: See above the justification for P378.</u> Type B removed because this is covered by the new combination statement P370 + P380 + P375 + P378 (see below)
P370 ± P372 + P380 ± P373	In case of fire: <u>Explosion risk.</u> Evacuate area. <u>Do NOT fight fire when fire reaches explosives.</u>	Explosives (chapter 2.1)	<u>Unstable explosives</u> and D divisions 1.1, 1.2, 1.3, 1.4 , 1.5		<u>Consequential amendment: See above the justification for P370, P372, P373 and P380:</u> This combination would replace P370 + P380 and combines all the response PS for these categories which apply in case of fire. It avoids saying ‘in case of fire’ twice.
			<u>Division 1.4</u>	<u>- except for explosives of division 1.4 (compatibility group S) in transport packaging</u>	
		<u>Self-reactive substances and mixtures (chapter 2.8)</u>	<u>Type A</u>		
		<u>Organic peroxides (chapter 2.15)</u>	<u>Type A</u>		
P370 + P380 + P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	<u>Explosives (chapter 2.1)</u>	<u>Division 1.4</u>	<u>- for explosives of division 1.4 (compatibility group S) in transport packaging</u>	<u>Consequential amendment: See above justification for P375.</u> Deletion of self-reactives and organic peroxides, since the precaution is covered by the proposed new combination statement P370 + P380 + P375 + P378 (see below).
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B		
		Organic peroxides (chapter 2.15)	Type B		
P371 + P380 + P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.	Oxidizing liquids (chapter 2.13)	1		
		Oxidizing solids (chapter 2.14)	1		

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
<p>P370 ± P380 ± P375 ± P378</p>	<p><u>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use...to extinguish.]</u></p>	<p>Self-reactive substances and mixtures (chapter 2.8) Organic peroxides (chapter 2.15)</p>	<p>Type B Type B</p>	<p><i>- text in square brackets to be used if water increases risk.</i> ...Manufacturer/supplier or the competent authority to specify appropriate media</p>	<p>Proposal for new combination statement and condition for use: Currently there is duplication because we have P370 + P378 “In case of fire: Use ... to extinguish”, and P370 + P380 + P375 “In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion” – i.e. ‘In case of fire’ occurs twice. The same precaution can be expressed more economically using a single combination statement as shown. The correct condition for ‘Use ... to extinguish’ is preserved using square brackets and an appropriate condition for use.</p>

Table A3.2.4: Codification of storage precautionary statements

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P401	Store <u>in accordance with</u> ...	Explosives (chapter 2.1)	Unstable explosives and Divisions 1.1, 1.2, 1.3, 1.4, 1.5	... <u>Manufacturer/supplier or the competent authority to specify in accordance with</u> local/regional/national/international regulations (to be specified) <u>as applicable</u>	
P402	Store in a dry place.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3		
P403	Store in a well-ventilated place.	Flammable gases (chapter 2.2)	1, 2		
		Oxidizing gases (chapter 2.4)	1		
		Gases under pressure (chapter 2.5)	Compressed gas		
			Liquefied gas		
			Refrigerated liquefied gas		
Flammable liquids (chapter 2.6)	1, 2, 3, 4	<u>- for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.</u>	Proposal to add conditions for use: Clarification for which substances the statement is most appropriate.		

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	<i>- except for temperature</i>	<u>Proposal to add conditions for use:</u> Clarification for which substances the statement is not appropriate.
		<u>Organic peroxides (chapter 2.15)</u>	<u>Types A, B, C, D, E, F</u>	<i>controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</i>	<u>Proposal to add organic peroxides:</u> In analogy to self-reactives (they have the same hazard).
		Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	<i>- if product is volatile so as to generate hazardous atmosphere.</i>	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3		
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3		
P404	Store in a closed container.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3		
P405	Store locked up.	Acute toxicity, oral (chapter 3.1)	1, 2, 3		
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3		
		Acute toxicity, inhalation (chapter 3.1)	1, 2, 3		
		Skin corrosion (chapter 3.2)	1A, 1B, 1C		
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2		
		Carcinogenicity (chapter 3.6)	1A, 1B, 2		
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2		

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2		
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3		
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3		
		Aspiration hazard (chapter 3.10)	1, 2		
P406	Store in a corrosion corrosive resistant/... container with a resistant inner liner.	Substances and mixtures Corrosive to metals (chapter 2.16)	1	<i>- may be omitted if P234 is given on the label</i> ... Manufacturer/supplier or the competent authority to specify other compatible materials.	<p><u>Proposal to amend the text of the statement:</u> Technically correct wording. No further amendment needed to the slash since manufacturer/supplier or competent authority should choose between “corrosive resistant container” and some other appropriate formulation</p> <p><u>Proposal to amend the name of the hazard class for corrosive to metals:</u> In line with the actual name of the hazard class.</p> <p><u>Proposal to add a precedence rule</u> Since the statement is redundant if P234 (Keep only in original container) is already assigned.</p>

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P407	Maintain air gap between stacks or pallets.	Self-heating substances and mixtures (chapter 2.11)	1, 2		<u>Proposal to re-word:</u> Manufacturer/supplier or the competent authority should include all wording on the label and should not choose between ‘stacks’ or ‘pallets’.
P410	Protect from sunlight.	Aerosols (chapter 2.3)	1, 2, 3		
		Gases under pressure (chapter 2.5)	Compressed gas Liquefied gas Dissolved gas	<i>– may be omitted 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, or the competent authority provides otherwise.</i>	
		Self-heating substances and mixtures (chapter 2.11)	1, 2		<u>Proposal to add self-reactives:</u> In analogy to organic peroxides (they have the same hazard).
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F		

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P411	Store at temperatures not exceeding ...°C/...°F.	Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	- if temperature control is required (according to section 2.8.2.3 or 2.15.2.3 of the GHS) or if otherwise deemed necessary. ... Manufacturer/supplier or the competent authority to specify temperature using applicable temperature scale.	Proposal to amend the conditions for use: Generally only necessary if temperature control is needed/required. Proposal to add condition for use: Use of the slash is appropriate because manufacturer/supplier should use the temperature scale that is applicable in the region to which they are supplying. Suggestion to add a condition of use to clarify this.
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F		
P412	Do not expose to temperatures exceeding 50 °C/ 122 °F.	Aerosols (chapter 2.3)	1, 2, 3	Manufacturer/supplier or the competent authority to use applicable temperature scale.	
P413	Store bulk masses greater than ... kg/...lbs at temperatures not exceeding ...°C/...°F.	Self-heating substances and mixtures (chapter 2.11)	1, 2	... Manufacturer/supplier or the competent authority to specify mass and temperature using applicable scale. ... Manufacturer/supplier or the competent authority to specify mass and temperature using applicable scale.	
P420	Store away from other materials separately.	Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F		Proposal to amend the statement:

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Self-heating substances and mixtures (chapter 2.11)	1, 2		Shorter and more appropriate. <u>Proposal to add oxidizing liquids and oxidizing solids category 1:</u> Oxidizers of cat. 1 are not compatible with other chemicals and it is essential to store them separately.
		Oxidizing liquids (chapter 2.13)	<u>1</u>		
		Oxidizing solids (chapter 2.14)	<u>1</u>		
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F		
P422	Store contents under ...	Pyrophoric liquids (chapter 2.9)	1	... Manufacturer/supplier or the competent authority to specify appropriate liquid or inert gas.	Proposal to delete P422: If P231 is amended as proposed above, it covers handling and storage and P422 is not necessary anymore (see above)
		Pyrophoric solids (chapter 2.10)	1		
P402 + P404	Store in a dry place. Store in a closed container.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3		

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	- if product <i>the chemical</i> is volatile so as to <i>and may generate a hazardous atmosphere.</i>	<u>Consequential amendment:</u> see P233.
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3		
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3		
P403 + P235	Store in a well-ventilated place. Keep cool.	Flammable liquids (chapter 2.6)	1, 2, 3, 4	- <u>for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.</u>	Proposal to add conditions for use: Clarification for which substances the statement is most appropriate.
		Self reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	May be omitted if P411 is given on the label	
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	May be omitted if P413 is given on the label	Proposal to add organic peroxides: In analogy to self reactives (they have the same hazard).

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P410 + P403	Protect from sunlight. Store in a well-ventilated place.	Gases under pressure (chapter 2.5)	Compressed gas Liquefied gas Dissolved gas	– <i>P410 may be omitted 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, or the competent authority provides otherwise.</i>	Proposal to amend condition for use: Only P410 should be omitted in the conditions described; P403 should remain on the label.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	Aerosols (chapter 2.3)	1, 2, 3 0	Manufacturer/supplier or the competent authority to use applicable temperature scale.	

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P411 + P235	Store at temperatures not exceeding ...°C/...°F. Keep cool.	Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	... Manufacturer/supplier or the competent authority to specify temperature.	<p><u>Proposal to delete the combination statement (not the individual statements):</u></p> <p>Self-reactives and organic peroxides have both statements assigned but they should not be assigned both at the same time. If temperature control is required, P411 should be assigned (then "Keep cool" is not needed) and if no temperature control is required P235 should be assigned. Therefore the combination statement can be deleted.</p>

Table A3.2.5: Codification of disposal precautionary statements

Code (1)	Disposal precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
P501	Dispose of contents/container to ...	Explosives (chapter 2.1)	Unstable explosives and Divisions 1.1, 1.2, 1.3, 1.4, 1.5	... in accordance with local/regional/national/international regulation (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.	<p><u>Proposal to amend the condition for use:</u> Local or national regulations may apply to contents or container, or both. Therefore, the option to include either word (or both) should be retained via the slash. The manufacturer/supplier or competent authority should use the applicable wording for the specific case.</p>
		Flammable liquids (chapter 2.6)	1, 2, 3, 4		
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F		
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3		
		Oxidizing liquids (chapter 2.13)	1, 2, 3		
		Oxidizing solids (chapter 2.14)	1, 2, 3		
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F		
		Acute toxicity, oral (chapter 3.1)	1, 2, 3, 4		
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3, 4		
		Acute toxicity, inhalation (chapter 3.1)	1, 2		
		Skin corrosion (chapter 3.2)	1A, 1B, 1C		
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B		
		Skin sensitization (chapter 3.4)	1, 1A, 1B		
Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2				

Code (1)	Disposal precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
		Carcinogenicity (chapter 3.6)	1A, 1B, 2		
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2		
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2		
		Specific target organ toxicity , single exposure; respiratory tract irritation (chapter 3.8)	3		
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3		
		Specific target organ toxicity, repeated exposure (chapter 3.9)	1, 2		
		Aspiration hazard (chapter 3.10)	1, 2		
		Hazardous to the aquatic environment, acute hazard (chapter 4.1)	1, 2, 3		
		Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	1, 2, 3, 4		
P502	Refer to manufacturer <u>or</u> /supplier for information on recovery <u>or</u> /recycling	Hazardous to the ozone layer (chapter 4.2)	1		<u>Proposal to re-word:</u> The person labelling the chemical is not intended to choose between the words ‘manufacturer’ and ‘supplier’, but should include both since either could be contacted. The labeller is also not intended to choose between ‘recovery’ and ‘recycling’. Rather, the label should

Code (1)	Disposal precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	Explanation/Justification
					indicate that the user should seek information on recovery or recycling, since either might be relevant in different circumstances.

Annex 3

Tables in A3.3.5 of the GHS as amended by the proposals in documents ST/SG/AC.10/C.4/2012/19 and ST/SG/AC.10/C.4/2012/20

EXPLOSIVES (Chapter 2.1)

Symbol Exploding bomb

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.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P250 Do not subject to grinding/shock/...friction/... <i>- if the explosive is mechanically sensitive.</i> ...Manufacturer/supplier or the competent authority to specify applicable rough handling.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.Wear face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>	<p><u>P370+P372+P380+P373</u> In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.</p> <p>P372 Explosion risk in case of fire.</p> <p>P373 DO NOT fight fire when fire reaches explosives.</p> <p>P380 Evacuate area.</p>	<p>P401 Store in accordance with... ...<u>Manufacturer/supplier or the competent authority to specify in accordance with</u> local/regional/national/international regulations (to be specified as applicable).</p>	<p>P501 Dispose of contents/container toin accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

EXPLOSIVES
(Chapter 2.1)

Symbol
Exploding bomb



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, <u>hot surfaces</u>, <u>/sparks, /open flames/ and other ignition sources</u> hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</p> <p>P230 Keep wetted with... <i>- 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).</i> ... Manufacturer/supplier or the competent authority to specify appropriate material. - if drying out increases explosion hazard, except as needed for manufacturing or operating processes (e.g. nitrocellulose).</p> <p><u>P234</u> Keep only in original packaging.</p> <p>P240 Ground <u>and</u> bond container and receiving equipment. <i>- if the explosive is electrostatically sensitive.</i></p> <p>P250 Do not subject to grinding/shock/ ... friction/ ... <i>- if the explosive is mechanically sensitive.</i></p>	<p>P370 +P372+P380+P373 In case of fire: <u>Explosion risk</u>, <u>Evacuate area</u>. DO NOT fight fire when fire reaches explosives.</p> <p>P372 Explosion risk in case of fire.</p> <p>P373 DO NOT fight fire when fire reaches explosives.</p>	<p>P401 Store <u>in accordance with...</u> ... Manufacturer/supplier or the competent authority to specify in accordance with local/regional/national/international regulations (to be specified) <u>as applicable.</u></p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

<p>...Manufacturer/supplier or the competent authority to specify applicable rough handling.</p> <p>P280</p> <p>Wear face protection. <u>Wear protective gloves/protective clothing/eye protection/face protection.</u></p> <p>Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>			
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EXPLOSIVES
(Chapter 2.1)

Symbol
Exploding bomb



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, hot surfaces, sparks, open flames and other ignition sources hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P234 <u>Keep only in original packaging.</u></p> <p>P240 Ground and bond container and receiving equipment. <i>- if the explosive is electrostatically sensitive.</i></p> <p>P250 Do not subject to grinding/shock/ ...friction/ <i>- if the explosive is mechanically sensitive.</i> <i>... Manufacturer/supplier or the competent authority to specify applicable rough handling.</i></p> <p>P280 <u>Wear protective gloves/protective clothing/eye protection/face protection.</u> Wear face protection. Manufacturer/supplier or competent authority to specify <u>the appropriate</u> type of equipment.</p>	<p>P370+P372+P380+P373 In case of fire: <u>Explosion risk</u>. Evacuate area. DO NOT fight fire when fire reaches explosives. <i>- except for explosives of division 1.4 (compatibility group S) in transport packaging.</i></p> <p>P370+P380+P375 <u>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</u> <i>- for explosives of division 1.4 (compatibility group S) in transport packaging</i></p> <p>P372 Explosion risk in case of fire. <i>- except if explosives are 1.4S</i> AMMUNITION AND COMPONENTS THEREOF.</p> <p>P373 DO NOT fight fire when fire reaches explosives.</p> <p>P374 Fight fire with normal precautions from a reasonable distance. <i>- If explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF.</i></p>	<p>P401 Store <u>in accordance with...</u> <i>... Manufacturer/supplier or the competent authority to specify <u>in accordance with</u> local/regional/ national/international regulations (to be specified) as applicable.</i></p>	<p>P501 Dispose of contents/container to... <i>... in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></i></p>

EXPLOSIVES
(Chapter 2.1)

Symbol <i>No symbol</i>

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, <u>hot surfaces</u>, sparks, open flames and other ignition sources/hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s):</p> <p>P230 Keep wetted with... <i>- 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).</i> ... Manufacturer/supplier or the competent authority to specify appropriate material. if drying out increases explosion hazard, except as needed for manufacturing or operating processes (e.g. nitrocellulose):</p> <p>P234 <u>Keep only in original packaging.</u></p> <p>P240 Ground <u>and</u> bond container and receiving equipment - <i>if the explosive is electrostatically sensitive.</i></p> <p>P250 Do not subject to grinding/shock////friction/<u>...</u></p>	<p>P370 + P372 + P380 + P373 In case of fire: <u>Explosion risk</u>. Evacuate area. DO NOT fight fire when fire reaches explosives.</p> <p>P372 <u>Explosion risk in case of fire.</u></p> <p>P373 <u>DO NOT fight fire when fire reaches explosives.</u></p>	<p>P401 Store <u>in accordance with...</u> ... <u>Manufacturer/supplier or the competent authority to specify in accordance with</u> local/regional/national/international regulations <u>as applicable</u> (to be specified);</p>	<p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

<p><i>- if the explosive is mechanically sensitive.</i></p> <p>...Manufacturer/supplier or the competent authority to specify applicable rough handling. P280</p> <p><u>Wear protective gloves/protective clothing/eye protection/face protection.</u> Wear face protection.</p> <p>Manufacturer/supplier or competent authority to specify <u>the appropriate</u> type of equipment.</p>			
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FLAMMABLE GASES (INCLUDING CHEMICALLY UNSTABLE GASES)

(Chapter 2.2)

(Flammable gases)

Symbol Flame

Hazard category	Signal word	Hazard statement
1	Danger	H220 Extremely flammable gas



Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat, hot surfaces, sparks, open flames <u>and other ignition</u> <u>sources</u> hot surfaces . No smoking. Manufacturer/supplier or competent authority to specify applicable ignition source(s).	P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 <u>In case of leakage, E</u> liminate all ignition sources if safe to do so .	P403 Store in well-ventilated place.	

FLAMMABLE GASES (INCLUDING CHEMICALLY UNSTABLE GASES)
 (Chapter 2.2)
 (Flammable gases)

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
2	Warning	H221 Flammable gas

Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat, <u>hot surfaces</u> , /sparks, /open flames, hot surfaces and <u>other ignition sources</u> . No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s).	P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 <u>In case of leakage, E</u> liminate all ignition sources if safe to do so.	P403 Store in well-ventilated place.	

FLAMMABLE GASES (INCLUDING CHEMICALLY UNSTABLE GASES)
(Chapter 2.2)
(Chemically unstable gases)

Symbol <i>No additional symbol</i>

Hazard category	Signal word	<u>Additional</u> hazard statement
A	<i>No additional signal word</i>	H230 May react explosively even in the absence of air
B	<i>No additional signal word</i>	H231 May react explosively even in the absence of air at elevated pressure and/or temperature

Precautionary statements			
Prevention	Response	Storage	Disposal
P202 Do not handle until all safety precautions have been read and understood.			

Note: This table lists only the precautionary statement that is assigned due to the chemical instability of the gas. For the other precautionary statements that are assigned based on the flammability see the respective tables for flammable gases.

AEROSOLS
(Chapter 2.3)

Symbol Flame



Hazard category	Signal word	Hazard statement
1	Danger	H222 Extremely flammable aerosol H229 Pressurized container: may burst if heated
2	Warning	H223 Flammable aerosol H229 Pressurized container: may burst if heated

Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat, hot surfaces, sparks, open flames/ and other ignition sources hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use.		P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Manufacturer/supplier or the competent authority to use applicable temperature scale.	

AEROSOLS
(Chapter 2.3)

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
3	Warning	H229 Pressurized container: may burst if heated

Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat, <u>hot surfaces</u> , /sparks, /open flames/ <u>and other ignition</u> <u>sources</u> hot surfaces . No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P251 Do not pierce or burn, even after use.		P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. <u>Manufacturer/supplier or the competent</u> <u>authority to use applicable temperature</u> <u>scale.</u>	

OXIDIZING GASES
(Chapter 2.4)

Symbol Flame over circle



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

Precautionary statements			
Prevention	Response	Storage	Disposal
P220 Keep/Store away from clothing/.../ <u>and other</u> combustible materials. ...Manufacturer/supplier or the competent authority to specify other incompatible materials. P244 Keep valves and fittings free from oil and grease.	P370 + P376 In case of fire: Stop leak if safe to do so.	P403 Store in well-ventilated place.	

GASES UNDER PRESSURE
(Chapter 2.5)

Symbol Gas cylinder



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. <i>– P410 may be omitted 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, or the competent authority provides otherwise.</i>	

GASES UNDER PRESSURE
(Chapter 2.5)

Symbol Gas cylinder



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
P282 Wear cold insulating gloves <u>and either</u> /face shield <u>or</u> /eye protection.	P336 + P315 Thaw frosted parts with lukewarm water. Do not rub affected area. <u>Get</u> <u>immediate medical advice.</u> P315 Get immediate medical advice/attention	P403 Store in well-ventilated place.	

FLAMMABLE LIQUIDS
(Chapter 2.6)

Symbol Flame



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, hot surfaces, sparks, open flames and other ignition sources hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</p> <p>P233 Keep container tightly closed. <i>- if the liquid is volatile and may generate an explosive atmosphere.</i></p> <p>P240 Ground and bond container and receiving equipment — if electrostatically sensitive material is for reloading. - if product the liquid is volatile so as to and may generate hazardous and explosive atmosphere.</p> <p>P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment. <i>- if the liquid is volatile and may generate and explosive atmosphere.</i> <i>- may be omitted where local or national legislation introduces more specific provisions.</i> <i>- text in square brackets may be used to specify specific electrical, ventilating, lighting or other equipment if necessary and as appropriate.</i> — Manufacturer/supplier or the competent authority to specify other equipment.</p>	<p>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower]. <i>- text in square brackets to be included where the manufacturer/supplier or the competent authority consider it appropriate for the specific chemical.</i></p> <p>P370 + P378 In case of fire: Use ... to extinguish. <i>- if water increases risk.</i> ... Manufacturer/supplier or the competent authority to specify appropriate media.</p>	<p>P403 + P235 Store in a well-ventilated place. Keep cool. <i>- for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.</i></p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

<p>P242 Use only non-sparking tools. <i>- if the liquid is volatile and may generate an explosive atmosphere and if the minimum ignition energy is very low. (This applies to substances and mixtures where the minimum ignition energy is <0.1mJ, e.g. carbon disulfide).</i></p> <p>P243 Take precautionary measures againstaction to prevent static discharges. <i>- if the liquid is volatile and may generate an explosive atmosphere.</i> <i>- may be omitted where local or national legislation introduces more specific provisions.</i></p> <p>P280 Wear protective gloves/eye protection/face protection Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>			
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FLAMMABLE LIQUIDS
(Chapter 2.6)

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
4	Warning	H227 Combustible liquid

Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from <u>heat, hot surfaces, sparks, open flames and hot surfaces</u> <u>other ignition sources</u> . No smoking. P280 <u>Wear protective gloves/protective clothing/eye protection/face protection.</u> Wear protective gloves/eye protection/face protection Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.	P370 + P378 In case of fire: Use ... to extinguish. <i>- if water increases risk.</i> ... Manufacturer/supplier or the competent authority to specify appropriate media.	P403 +P235 Store in a well-ventilated place. Keep cool. <u>- for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.</u>	P501 Dispose of contents/container to... in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u>

FLAMMABLE SOLIDS
(Chapter 2.7)

Symbol
Flame



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, <u>hot surfaces</u>, /sparks, /open flames/ and other ignition sources<u>hot surfaces</u>. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</p> <p>P240 Ground <u>and</u> B bond container and receiving equipment. - if the solid is electrostatically sensitive material is for reloading.</p> <p>P241 Use explosion-proof [<u>electrical/ventilating/lighting/...</u>]/equipment. ... Manufacturer/supplier or the competent authority to specify other equipment. - if dust clouds can occur. - may be omitted where local or national legislation introduces more specific provisions. - text in square brackets may be used to specify specific electrical, ventilating, lighting or other equipment if necessary and as appropriate.</p> <p>P280 <u>Wear protective gloves/protective</u></p>	<p>P370 + P378 In case of fire: Use ... to extinguish - if water increases risk. ... Manufacturer/supplier or the competent authority to specify appropriate media.</p>		

<p>clothing/eye protection/face protection. Wear protective gloves/eye protection/face protection</p> <p>Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>			
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SELF-REACTIVE SUBSTANCES AND MIXTURES
(Chapter 2.8)

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

Symbol
Exploding bomb



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources/hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier or the competent authority to specify other incompatible materials.</p> <p>P234 Keep only in original container packaging.</p> <p>P235 Keep cool. <i>- may be omitted if P411 is given on the label.</i></p> <p>P240 Ground and bond container and receiving equipment. <i>- if electrostatically sensitive and able to generate an explosive atmosphere.</i></p> <p>P280 Wear protective gloves/protective clothing/eye protection/face</p>	<p>P370 + P378 In case of fire: Use ... to extinguish Manufacturer/supplier or the competent authority to specify appropriate media: — if water increases risk.</p> <p>P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</p> <p>P370 + P372 + P380 + P373 In case of fire: Explosion risk. Evacuate area. Do NOT fight fire when fire reaches explosives.</p>	<p>P403 + P235 Store in a well-ventilated place. Keep cool. <i>- except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</i></p> <p>P411 Store at temperatures not exceeding ... °C/... °F. <i>- if temperature control is required (according to section 2.8.2.3 or 2.15.2.3 of the GHS) or if otherwise deemed necessary.</i> ... Manufacturer/supplier or the competent authority to specify temperature <u>using applicable temperature scale.</u></p> <p>P420 Store away from other materials separately.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

<p>protection. Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>			
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SELF-REACTIVE SUBSTANCES AND MIXTURES
(Chapter 2.8)

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

Symbol Exploding bomb and flame



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat, <u>hot surfaces</u>, <u>sparks</u>, <u>open flames</u> and <u>other ignition sources</u>/<u>hot surfaces</u>. No smoking. <i>Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</i></p> <p>P220 Keep/Store away from <u>clothing</u>/<u>combustible materials</u>. <i>... Manufacturer/supplier or the competent authority to specify other incompatible materials.</i></p> <p>P234 Keep only in original <u>packaging</u> container.</p> <p>P235 Keep cool. <i>- may be omitted if P411 is given on the label</i></p> <p>P240 <u>Ground and bond container and receiving equipment.</u> <i>- if electrostatically sensitive and able to generate an explosive atmosphere.</i></p> <p>P280 <u>Wear protective gloves/protective clothing/eye protection/face</u></p>	<p>P370 + P378 In case of fire: Use ... to extinguish. <i>... Manufacturer/supplier or the competent authority to specify appropriate media: — if water increases risk</i></p> <p>P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</p> <p>P370 + P380 + P375 [+ P378] In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use ... to extinguish.] <i>- text in square brackets to be used if water increases risk.</i> <i>... Manufacturer/supplier or the competent authority to specify appropriate media.</i></p>	<p>P403 + P235 Store in a well-ventilated place. Keep cool. <i>- except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</i></p> <p>P411 Store at temperatures not exceeding ... °C/... °F. <i>- if temperature control is required (according to section 2.8.2.3 or 2.15.2.3 of the GHS) or if otherwise deemed necessary.</i> <i>... Manufacturer/supplier or the competent authority to specify temperature using applicable temperature scale.</i></p> <p>P420 Store away from other materials separately.</p>	<p>P501 Dispose of contents/container to... <i>... in accordance with local/regional/national/international regulations (to be specified).</i> Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

<p><u>protection.</u> Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>			
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SELF-REACTIVE SUBSTANCES AND MIXTURES
(Chapter 2.8)

Symbol Flame



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, <u>hot surfaces</u>, <u>/sparks, /open flames/ and other ignition sources</u> hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P220 Keep/Store away from <u>clothing/.../combustible materials</u>. ...Manufacturer/supplier or the competent authority to specify other incompatible materials.</p> <p>P234 Keep only in original <u>packaging</u> container.</p> <p>P235 <u>Keep cool.</u> - may be omitted if P411 is given on the label</p> <p>P240 <u>Ground and bond container and receiving equipment.</u> - if electrostatically sensitive and able to generate an explosive atmosphere.</p> <p>P280 <u>Wear protective gloves/protective clothing/eye protection/face</u></p>	<p>P370 + P378 In case of fire: Use ... to extinguish - if water increases risk. ... Manufacturer/supplier or the competent authority to specify appropriate media.</p>	<p>P403 + P235 Store in a well-ventilated place. Keep cool. - except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place. P411 Store at temperatures not exceeding ...°C/...°F. - if temperature control is required (according to section 2.8.2.3 or 2.15.2.3 of the GHS) or if otherwise deemed necessary. ...Manufacturer/supplier or the competent authority to specify temperature <u>using applicable temperature scale.</u> P420 Store away from other materials <u>separately.</u></p>	<p>P501 Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

<p>protection. Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>			
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PYROPHORIC LIQUIDS
(Chapter 2.9)

Symbol
Flame

Hazard category

1

Signal word

Danger

Hazard statement

H250 Catches fire spontaneously if exposed to air



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat, <u>hot surfaces</u>, /sparks, /open flames <u>and other ignition sources</u>/hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</p> <p>P222 Do not allow contact with air. <i>- if emphasis of the hazard statement is deemed necessary.</i></p> <p><u>P231+P232</u> <u>Handle and store contents under inert gas/....</u> <u>Protect from moisture.</u> <i>...Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if "inert gas" is not appropriate.</i></p> <p>P233 <u>Keep container tightly closed.</u></p> <p>P280 <u>Wear protective gloves/protective clothing/eye protection/face protection.</u>Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>	<p>P302 + P334 IF ON SKIN: Immerse in cool water <u>or</u> wrap with wet bandages</p> <p>P370 + P378 In case of fire: Use ... to extinguish <i>- if water increases risk.</i> <i>... Manufacturer/supplier or the competent authority to specify appropriate media.</i></p>	<p>P422 Store contents under ... <i>...Manufacturer/supplier or the competent authority to specify appropriate liquid or inert gas.</i></p>	

PYROPHORIC SOLIDS
(Chapter 2.10)

Symbol Flame

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, <u>hot surfaces</u>, <u>/sparks, /open flames</u>, hot surfaces and other ignition sources. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s):</p> <p>P222 Do not allow contact with air. <i>- if emphasis of the hazard statement is deemed necessary.</i></p> <p><u>P231 + P232</u> Handle and store contents under inert gas/.... Protect from moisture. ...Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if “inert gas” is not appropriate.</p> <p><u>P233</u> Keep container tightly closed.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection. Wear protective gloves/eye protection/face protection</p> <p>Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>	<p><u>P302 + P335 + P334</u> IF ON SKIN: Brush off loose particles from skin. Immerse in cool water <u>or</u> /wrap in wet bandages.</p> <p>P370 + P378 In case of fire: Use ... to extinguish - <i>if water increases risk.</i> ... Manufacturer/supplier or the competent authority to specify appropriate media.</p>	<p>P422 Store contents underManufacturer/supplier or the competent authority to specify appropriate liquid or inert gas.</p>	

SELF-HEATING SUBSTANCES AND MIXTURES
(Chapter 2.11)

Symbol
Flame

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
P235 +P410 Keep cool. Protect from sunlight. <i>- may be omitted if P413 is given on the label</i> P280 <u>Wear protective gloves/protective clothing/eye protection/face protection.</u> Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.		P407 Maintain air gap between stacks or pallets. <u>P410</u> <u>Protect from sunlight.</u> P413 Store bulk masses greater than ... kg/...lbs at temperatures not exceeding ...°C/...°F. ... Manufacturer/supplier or the competent authority to specify mass and temperature <u>using applicable scale.</u> P420 Store <u>separately</u> away from other materials.	

SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES
(Chapter 2.12)

Symbol Flame

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 Do not allow contact with water. <i>- if emphasis of the hazard statement is deemed necessary.</i></p> <p>P231 + P232 Handle and store contents under inert gas/... Protect from moisture. <i>- if the substance or mixture reacts readily with moisture in air.</i> <i>... Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if "inert gas" is not appropriate.</i></p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection. Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>	<p>P302 + P335 + P334 IF ON SKIN: Brush off loose particles from skin, and immerse in cool water. wrap in wet bandages.</p> <p>P370 + P378 In case of fire: Use ... to extinguish <i>- if water increases risk.</i> ... Manufacturer/supplier or the competent authority to specify appropriate media.</p>	<p>P402 + P404 Store in a dry place. Store in a closed container.</p>	<p>P501 Dispose of contents/container to... ...in accordance with local/regional/national/ international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES
(Chapter 2.12)

Symbol Flame

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 <u>and store contents</u> under inert gas/... Protect from moisture. <i>- if the substance or mixture reacts readily with moisture in air.</i> ... <u>Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if “inert gas” is not appropriate.</u></p> <p>P280 Wear protective gloves/eye protection/face protection. <u>Wear protective gloves/protective clothing/eye protection/face protection.</u> Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>	<p>P370 + P378 In case of fire: Use ... to extinguish. <i>- if water increases risk.</i> ... Manufacturer/supplier or the competent authority to specify appropriate media.</p>	<p>P402 + P404 Store in a dry place. Store in a closed container.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

OXIDIZING LIQUIDS
(Chapter 2.13)

Symbol Flame over circle

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, <u>hot surfaces, sparks, open flames and other ignition sources. No smoking.</u></p> <p>P220 Keep/Store away from clothing and other combustible materials.</p> <p>P221 Take any precaution to avoid mixing with combustibles/... ... Manufacturer/supplier or the competent authority to specify other incompatible materials.</p> <p>P280 Wear protective gloves /eye protection/face protection. <u>Wear protective gloves/protective clothing/eye protection/face protection.</u> Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p> <p>P283 Wear fire/flame resistant <u>or flame/</u> retardant clothing.</p>	<p>P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.</p> <p>P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.</p> <p>P370 + P378 In case of fire: Use ... to extinguish. - <i>if water increases risk.</i> ... Manufacturer/supplier or the competent authority to specify appropriate media.</p>	<p><u>P420</u> <u>Store separately.</u></p>	<p>P501 Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

OXIDIZING LIQUIDS
(Chapter 2.13)

Symbol
Flame over circle



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, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P220 Keep/Store away from clothing/.../ and other combustible materials. ...Manufacturer/supplier or the competent authority to specify other incompatible materials.</p> <p>P221 Take any precaution to avoid mixing with combustibles/... ... Manufacturer/supplier or the competent authority to specify other incompatible materials.</p> <p>P280 Wear protective gloves/eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>	<p>P370 + P378 In case of fire: Use ... to extinguish. - <i>if water increases risk.</i> ... Manufacturer/supplier or the competent authority to specify appropriate media.</p>		<p>P501 Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

OXIDIZING SOLIDS
(Chapter 2.14)

Symbol Flame over circle



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, <u>hot surfaces, sparks, open flames and other ignition sources. No smoking.</u></p> <p>P220 Keep away from clothing and other combustible materials.</p> <p>P221 Take any precaution to avoid mixing with combustibles/... ...Manufacturer/supplier or the competent authority to specify other incompatible materials.</p> <p>P280 Wear protective gloves/eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p> <p>P283 Wear fire/flame resistant <u>or flame/</u>retardant clothing.</p>	<p>P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.</p> <p>P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.</p> <p>P370 + P378 In case of fire: Use ... to extinguish. <i>- if water increases risk.</i></p> <p>... Manufacturer/supplier or the competent authority to specify appropriate media.</p>	<p><u>P420</u> <u>Store separately.</u></p>	<p>P501 Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

OXIDIZING SOLIDS
(Chapter 2.14)

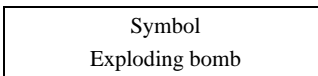
Symbol Flame over circle



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, <u>hot surfaces, sparks, open flames and other ignition sources. No smoking.</u></p> <p>P220 Keep/Store away from clothing/... and <u>other</u> combustible materials. ... Manufacturer/supplier or the competent authority to specify incompatible materials.</p> <p>P221 Take any precaution to avoid mixing with combustibles/... ... Manufacturer/supplier or the competent authority to specify other incompatible materials.</p> <p>P280 Wear protective gloves/eye protection/face protection. <u>Wear protective gloves/protective clothing/eye protection/face protection.</u> Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>	<p>P370 + P378 In case of fire: Use ... to extinguish. <i>- if water increases risk.</i> ... Manufacturer/supplier or the competent authority to specify appropriate media.</p>		<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

ORGANIC PEROXIDES
(Chapter 2.15)



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

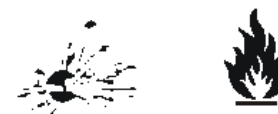


Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources/hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</p> <p>P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier or the competent authority to specify incompatible materials.</p> <p>P234 Keep only in original packaging container.</p> <p>P235 Keep cool. - may be omitted if P411 is given on the label</p> <p>P240 Ground and bond container and receiving equipment. - if electrostatically sensitive and able to generate an explosive atmosphere.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection. Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>	<p>P370 + P372 + P380 + P373 In case of fire: Explosion risk. Evacuate area. Do NOT fight fire when fire reaches explosives</p>	<p>P403 Store in a well-ventilated place. - except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</p> <p>P411 + P235 Store at temperatures not exceeding ...°C/...°F. Keep cool. - if temperature control is required (according to section 2.8.2.3 or 2.15.2.3 of the GHS) or if otherwise deemed necessary. ... Manufacturer/supplier or the competent authority to specify temperature <u>using applicable temperature scale.</u></p> <p>P410 Protect from sunlight.</p> <p>P420 Store <u>separately</u> away from other materials.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

ORGANIC PEROXIDES
(Chapter 2.15)

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

Symbol
Exploding bomb and flame



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources/hot surfaces. No smoking. ...Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</p> <p>P220 Keep /Store away from clothing/.../combustible materials. ... Manufacturer/supplier or the competent authority to specify incompatible materials.</p> <p>P234 Keep only in original packaging container.</p> <p>P235 Keep cool. <i>- may be omitted if P411 is given on the label</i></p> <p>P240 Ground and bond container and receiving equipment. <i>- if electrostatically sensitive and able to generate an explosive atmosphere.</i></p> <p>P280</p>	<p>P370 + P378 In case of fire: Use ... to extinguish <i>... Manufacturer/supplier or the competent authority to specify appropriate media. ...if water increases risk.</i></p> <p>P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</p> <p>P370 + P380 + P375 [+ P378] In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use ... to extinguish.] <i>- text in square brackets to be used if water increases risk. ...Manufacturer/supplier or the competent authority to specify appropriate media.</i></p>	<p>P403 Store in a well-ventilated place. <i>- except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</i></p> <p>P411 + P235 Store at temperatures not exceeding ...°C/...°F. Keep cool. <i>- if temperature control is required (according to section 2.8.2.3 or 2.15.2.3 of the GHS) or if otherwise deemed necessary. ...Manufacturer/supplier or the competent authority to specify temperature using applicable temperature scale.</i></p> <p>P410 Protect from sunlight.</p> <p>P420 Store separately away from other materials.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

<p>Wear protective gloves/eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.</p>			
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ORGANIC PEROXIDES
(Chapter 2.15)

Symbol Flame



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, hot surfaces, sparks, open flames and other ignition sources/hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</p> <p>P220 Keep/Store away from clothing/.../combustible materials ... Manufacturer/supplier or the competent authority to specify incompatible materials.</p> <p>P234 Keep only in original <u>packaging</u> container.</p> <p>P235 Keep cool. - may be omitted if P411 is given on the label.</p> <p>P240 Ground and bond container and receiving equipment. - if electrostatically sensitive and able to generate an explosive atmosphere.</p> <p>P280</p>	<p>P370 + P378 <u>In case of fire: Use ... to extinguish</u> - if water increases risk. ... Manufacturer/supplier or the competent authority to specify appropriate media.</p>	<p>P403 <u>Store in a well-ventilated place,</u> - except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</p> <p>P411 + P235 Store at temperatures not exceeding ... °C/... °F. Keep cool. - if temperature control is required (according to section 2.8.2.3 or 2.15.2.3 of the GHS) or if otherwise deemed necessary.</p> <p>... Manufacturer/supplier or the competent authority to specify temperature <u>using applicable temperature scale.</u></p> <p>P410 Protect from sunlight.</p> <p>P420 Store <u>separately</u> away from other materials.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

<p>Wear protective gloves/eye protection/face protection. <u>Wear protective gloves/protective clothing/eye protection/face protection.</u></p> <p>Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>			
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CORROSIVE TO METALS
(Chapter 2.16)

Symbol Corrosion

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 <u>packaging</u> container.	P390 Absorb spillage to prevent material damage.	P406 Store in <u>a corrosion</u> corrosive resistant/... container with a resistant inner liner. <i>- may be omitted if P234 is given on the label</i> ... Manufacturer/supplier or the competent authority to specify other compatible materials.	

ACUTE TOXICITY - ORAL
(Chapter 3.1)

Symbol Skull and crossbones



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

Precautionary statements			
Prevention	Response	Storage	Disposal
P264 Wash ...thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product.	P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. P321 Specific treatment (see ... on this label) - <i>if immediate administration of antidote is required.</i> ... Reference to supplemental first aid instruction. P330 Rinse mouth.	P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

ACUTE TOXICITY - ORAL
(Chapter 3.1)

Symbol Skull and crossbones

Hazard category	Signal word	Hazard statement
3	Danger	H301 Toxic if swallowed



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P264 Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p>	<p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p> <p>P321 Specific treatment (see ... on this label) - <i>if immediate administration of antidote is required.</i> ... Reference to supplemental first aid instruction.</p> <p>P330 Rinse mouth.</p>	<p>P405 Store locked up.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

ACUTE TOXICITY - ORAL
(Chapter 3.1)

Symbol Exclamation mark

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



Precautionary statements			
Prevention	Response	Storage	Disposal
P264 Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product.	P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. P330 Rinse mouth.		P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

ACUTE TOXICITY - ORAL
(Chapter 3.1)

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
5	Warning	H303 May be harmful if swallowed

Precautionary statements			
Prevention	Response	Storage	Disposal
	P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.		

ACUTE TOXICITY - DERMAL
(Chapter 3.1)

Symbol Skull and crossbones



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
P262 Do not get in eyes, on skin, or on clothing. P264 Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing. Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.	P302 + P352 IF ON SKIN: Wash with plenty of water/... ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate. P310 Immediately call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. P321 Specific treatment (see ... on this label) - <i>if immediate measures such as specific cleansing agent is advised.</i> ... Reference to supplemental first aid instruction. P361+ P364 Take off immediately all contaminated clothing and wash it before reuse.	P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

ACUTE TOXICITY - DERMAL
(Chapter 3.1)

Symbol Skull and crossbones

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. Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.</p>	<p>P302 + P352 IF ON SKIN: Wash with plenty of water/... ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.</p> <p>P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p> <p>P321 Specific treatment (see ... on this label) - <i>if immediate measures such as specific cleansing agent is advised.</i> ... Reference to supplemental first aid instruction.</p> <p>P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.</p>	<p>P405 Store locked up.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

ACUTE TOXICITY - DERMAL
(Chapter 3.1)

Symbol Exclamation mark

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 Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.</p>	<p>P302 + P352 IF ON SKIN: Wash with plenty of water/... ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.</p> <p>P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p> <p>P321 Specific treatment (see ... on this label) - <i>if immediate measures such as specific cleansing agent is advised.</i> ... Reference to supplemental first aid instruction.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p>		<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

ACUTE TOXICITY - DERMAL
(Chapter 3.1)

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
5	Warning	H313 May be harmful in contact with skin

Precautionary statements			
Prevention	Response	Storage	Disposal
	P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.		

ACUTE TOXICITY - INHALATION
(Chapter 3.1)

Symbol Skull and crossbones

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 or the competent authority to specify applicable conditions.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P284 [In case of inadequate ventilation] wear respiratory protection. – <i>text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use.</i> Manufacturer/supplier or the competent authority to specify equipment.</p>	<p>P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P310 Immediately call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p> <p>P320 Specific treatment is urgent (see ... on this label) – <i>if immediate administration of antidote is required.</i> ... Reference to supplemental first aid instruction.</p>	<p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed. – <i>if product the chemical is volatile as to and may generate a hazardous atmosphere.</i></p> <p>P405 Store locked up.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

ACUTE TOXICITY - INHALATION
(Chapter 3.1)

Symbol Skull and crossbones

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



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray. <i>– may be omitted if P260 is given on the label</i> Manufacturer/supplier or the competent authority to specify applicable conditions.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p>	<p>P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P311 Call a POISON CENTER/doctor... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p> <p>P321 Specific treatment (see ... on this label) - <i>if immediate specific measures are required.</i> ... Reference to supplemental first aid instruction.</p>	<p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed. <i>- if the chemical is volatile and may generate a hazardous atmosphere. —if product is volatile so as to generate hazardous atmosphere.</i></p> <p>P405 Store locked up.</p>	<p>P501 Dispose of content/container to... ... in accordance with local/regional/national/international regulations (to be specified). <u>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</u></p>

ACUTE TOXICITY - INHALATION
(Chapter 3.1)

Symbol Exclamation mark

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



Precautionary statements			
Prevention	Response	Storage	Disposal
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. <i>– may be omitted if P260 is given on the label</i> Manufacturer/supplier or the competent authority to specify applicable conditions. P271 Use only outdoors or in a well-ventilated area.	P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.		

ACUTE TOXICITY - INHALATION
(Chapter 3.1)

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
5	Warning	H333 May be harmful if inhaled

Precautionary statements			
Prevention	Response	Storage	Disposal
	P304 + P312 IF INHALED: Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.		

SKIN CORROSION/IRRITATION
(Chapter 3.2)

Symbol Corrosion



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

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P260 Do not breathe dusts or mists. <i>- if inhalable particles of dusts or mists may occur during use.</i></p> <p>P264 Wash ...thoroughly after handling. ...Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier or the competent authority to specify <u>the appropriate</u> type of equipment.</p>	<p>P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for shower]. <i>- text in square brackets to be included where the manufacturer/supplier or the competent authority consider it appropriate for the specific chemical.</i></p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P310 Immediately call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p> <p>P321 Specific treatment (see ... on this label) MManufacturer/supplier or the competent authority may specify a cleansing agent if appropriate. ... Reference to supplemental first aid instruction.</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.</p>	<p>P405 Store locked up.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

**SKIN CORROSION/IRRITATION
(Chapter 3.2)**

Symbol Exclamation mark

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 or the competent authority to specify parts of the body to be washed after handling.</p> <p>P280 Wear protective gloves. Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.</p>	<p>P302 + P352 IF ON SKIN: Wash with plenty water/... ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.</p> <p>P321 Specific treatment (see ... on this label) —Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate. ... Reference to supplemental first aid instruction.</p> <p>P332 + P313 If skin irritation occurs: Get medical advice/attention. — <i>may be omitted when P333+P313 appears-is given on the label</i></p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p>		

SKIN CORROSION/IRRITATION
(Chapter 3.2)

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
3	Warning	H316 Causes mild skin irritation

Precautionary statements			
Prevention	Response	Storage	Disposal
	P332 + P313 If skin irritation occurs: Get medical advice/attention. <i>– may be omitted when P333+P313 appears-is given on the label</i>		

EYE DAMAGE/IRRITATION
(Chapter 3.3)

Symbol Corrosion



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

Precautionary statements			
Prevention	Response	Storage	Disposal
P280 Wear eye protection/face protection. Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.		

EYE DAMAGE/IRRITATION
(Chapter 3.3)

Symbol Exclamation mark

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



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P264 Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p>P280 Wear eye protection/face protection. Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.</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.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</p>		

EYE DAMAGE/IRRITATION
(Chapter 3.3)

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
2B	Warning	H320 Causes eye irritation

Precautionary statements			
Prevention	Response	Storage	Disposal
P264 Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention.		

SENSITIZATION - RESPIRATORY
(Chapter 3.4)

Symbol Health hazard

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. – <i>may be omitted if P260 is given on the label</i> Manufacturer/supplier or the competent authority to specify applicable conditions. P284 [In case of inadequate ventilation] wear respiratory protection. – <i>text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use.</i> Manufacturer/supplier or the competent authority to specify equipment.</p>	<p>P304 + P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.</p> <p>P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p>		<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

SENSITIZATION - SKIN
(Chapter 3.4)

Symbol Exclamation mark

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



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray. <i>– may be omitted if P260 is given on the label</i> Manufacturer/supplier or the competent authority to specify applicable conditions.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves. Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.</p>	<p>P302 + P352 IF ON SKIN: Wash with plenty of water/... ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.</p> <p>P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P321 Specific treatment (see ... on this label) –Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate. ... Reference to supplemental first aid instruction.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p>		<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

GERM CELL MUTAGENICITY
(Chapter 3.5)

Symbol Health hazard

Hazard category	Signal word	1. Hazard statement
1	Danger	H340 May cause genetic defects <...>
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
P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.	P308 + P313 IF exposed or concerned: Get medical advice/attention.	P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

CARCINOGENICITY
(Chapter 3.6)

Symbol Health hazard



Hazard category	Signal word	Hazard statement
1	Danger	H350 May cause cancer <...>
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
P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.	P308 + P313 IF exposed or concerned: Get medical advice/attention.	P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

TOXIC TO REPRODUCTION
(Chapter 3.7)

Symbol Health hazard

Hazard category	Signal word	Hazard statement
1	Danger	H360 May damage fertility or the unborn child <...> <<...>>
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
P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier or the competent authority to specify the appropriate type of equipment.	P308 + P313 IF exposed or concerned: Get medical advice/attention.	P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

TOXIC TO REPRODUCTION
 (Chapter 3.7)
 (EFFECTS ON OR VIA LACTATION)

Symbol <i>No symbol</i>

Hazard category <i>(additional)</i>	Signal word <i>No signal word</i>	Hazard statement H362 May cause harm to breast-fed children
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Precautionary statements			
Prevention	Response	Storage	Disposal
P201 Obtain special instructions before use. P260 Do not breathe dusts or mists. <i>- if inhalable particles of dusts or mists may occur during use.</i> P263 Avoid contact during pregnancy <u>and</u> while nursing. P264 Wash ... thoroughly after handling. ...Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product.	P308 + P313 IF exposed or concerned: Get medical advice/attention.		

SPECIFIC TARGET ORGAN TOXICITY (Single exposure)
(Chapter 3.8)

Symbol Health hazard

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



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions.</p> <p>P264 Wash ...thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p>	<p>P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p> <p>P321 Specific treatment (see ... on this label) - if immediate measures are required. ... Reference to supplemental first aid instruction.</p>	<p>P405 Store locked up.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure)
(Chapter 3.8)

Symbol Health hazard



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 or the competent authority to specify applicable conditions.</p> <p>P264 Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p>	<p>P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p>	<p>P405 Store locked up.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure)
(Chapter 3.8)

Symbol Exclamation mark

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. <i>– may be omitted if P260 is given on the label.</i> Manufacturer/supplier or the competent authority to specify applicable conditions.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p>	<p>P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p>	<p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed. <i>- if the chemical is volatile and may generate a hazardous atmosphere. -if product is volatile so as to generate hazardous atmosphere.</i></p> <p>P405 Store locked up.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure)
(Chapter 3.9)

Symbol Health hazard

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



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions.</p> <p>P264 Wash ... thoroughly after handling. ...Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p>	<p>P314 Get medical advice/attention if you feel unwell.</p>		<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure)
(Chapter 3.9)

Symbol Health hazard

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



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions.</p>	<p>P314 Get medical advice/attention if you feel unwell.</p>		<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

ASPIRATION HAZARD
(Chapter 3.10)

Symbol Health hazard



Hazard category	Signal word	Hazard statement	
1	Danger	H304	May be fatal if swallowed and enters airways
2	Warning	H305	May be harmful if swallowed and enters airways

Precautionary statements			
Prevention	Response	Storage	Disposal
	P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. P331 Do NOT induce vomiting.	P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD
(Chapter 4.1)

Symbol Environment

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



Precautionary statements			
Prevention	Response	Storage	Disposal
P273 Avoid release to the environment. <i>- if this is not the intended use.</i>	P391 Collect spillage.		P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD
(Chapter 4.1)

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement	
2	<i>No signal word</i>	H401	Toxic to aquatic life
3	<i>No signal word</i>	H402	Harmful to aquatic life

Precautionary statements			
Prevention	Response	Storage	Disposal
P273 Avoid release to the environment. <i>- if this is not the intended use.</i>			P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD
(Chapter 4.1)

Symbol Environment

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
P273 Avoid release to the environment. <i>- if this is not the intended use.</i>	P391 Collect spillage.		P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD
(Chapter 4.1)

Symbol <i>No symbol</i>

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

Precautionary statements			
Prevention	Response	Storage	Disposal
P273 Avoid release to the environment. <i>- if this is not the intended use.</i>			P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

HAZARDOUS TO THE OZONE LAYER
(Chapter 4.2)

Symbol Exclamation mark

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 Refer to manufacturer/ <u>or</u> supplier for information on recovery <u>or</u> recycling