

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

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

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Item 2 (d) of the provisional agenda

**Updating of the third revised edition of the Globally Harmonized System
of Classification and Labelling of Chemicals (GHS) – Annexes**

Revision of Annexes 1, 2 and 3 of the GHS – Precautionary statements

**Transmitted by the representative from the United Kingdom on behalf
of the informal correspondence group**

Introduction

1. This document supports document ST/SG/AC.10/C.4/2010/12 on revision of Annexes 1, 2 and 3 of the GHS – Precautionary statements.
2. Section 1 gives full justifications of the individual changes proposed to the GHS precautionary statements.
3. Section 2 gives some example substances together with the precautionary statements they trigger, and the amendments which would result from the proposals in ST/SG/AC.10/C.4/2010/12
4. Section 3 reproduces the excerpts from Annex 3 (Sections 2 and 3) of the GHS, as amended in accordance with the proposal in document ST/SG/AC.10/C.4/2010/12. Proposed changes are shown in “track changes” mode.
5. The text from Annex 3 of the GHS for which no amendments are proposed in document ST/SG/AC.10/C.4/2010/12 is not reproduced hereafter.

Section 1

Detailed justification of changes to the GHS precautionary statements proposed in document ST/SG/AC.10/C.4/2010/12

List of proposed amendments to precautionary statements with explanations

1. **P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.**

Current position

The PS above applies to substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) – categories 1 and 2.

Proposed change

Delete text “because of violent reaction and possible flash fire”, and amend initial part so that PS reads simply, “Do not allow contact with water”.

Justification

Explanation of a required action is not normally given in precautionary statements. Text after comma is redundant because the hazard statement for this class gives the required information. For category 1 the hazard statement is: “In contact with water releases flammable gases, which may ignite spontaneously”, and for category 2 the hazard statement is “In contact with water releases flammable gas”.

“Keep away from any possible contact with water” also seems unnecessarily long – “Do not allow contact with water” is simpler and conveys the same message. The latter wording also aligns with P222, “Do not allow contact with air”, which applies to pyrophoric liquids and solids.

2. **P244 Keep reduction valves free from grease and oil**

Current situation

The above PS applies to oxidizing gases (chapter 2.4) category 1.

Proposed change

Rephrase as ‘Keep valves and fittings free from oil and grease’.

Justification

This precaution should not be restricted to the equipment connected to the pressure receptacles, but should be more general. The proposed text is also currently widely in use on a voluntary basis.

3. **P260 Do not breathe dust/fume/gas/mist/vapours spray**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray

Current situation

P260 applies to acute toxicity, categories 1 and 2, STOT single and repeat exposure categories 1 and 2, skin corrosion categories 1A, 1B, 1C and reproductive toxicity, effects on or via lactation.

P261 applies to acute toxicity, categories 3 and 4, respiratory sensitization categories 1, 1A and 1B, skin sensitization categories 1, 1A and 1B and STOT single exposure category 3 (narcotic effects/respiratory tract irritation).

Proposed change

Include a note in the conditions for use for P261 stating that P261 need not be present when P260 is already on the label.

Justification

Clearly, P260 is a stronger precaution than P261 and renders P261 redundant.

4. **P280 Wear protective gloves/protective clothing/eye protection/face protection**
P281 Use personal protective equipment as required

Current situation

P280 applies to various hazard categories within 15 different health and physical hazard classes.

P281 applies to carcinogens, mutagens and reproductive toxicants (CMRs) and unstable explosives.

Proposal

Delete P281 and extend P280 to cover CMRs and unstable explosives, adding a note for 'manufacturer/supplier or the competent authority to specify the type of equipment'.

Justification

P281 has the same intent as P280, but P280 gives the option for more precision as to the specific personal protective equipment required. Therefore, there seems no need to have two different statements covering the general need to use PPE – it is preferable to have the single statement P280 cover all cases.

5. **P284 Wear respiratory protection**
P285 In case of inadequate ventilation wear respiratory protection

Current situation

P284 applies to acute toxicity, inhalation, categories 1 and 2.

P285 applies to respiratory sensitisers categories 1, 1A and 1B.

Proposed change

Consolidate into a single statement, which would apply to both acute toxicity categories and respiratory sensitisers. This would read:

P284 [In case of inadequate ventilation] wear respiratory protection.

With the condition for use:

- *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.*

In addition, some explanatory text is proposed for inclusion in the introduction to Annex 3 section 2 to explain the use of square brackets. This would read:

“Where square brackets [...] appear around some text in a precautionary statement, this indicates that the text in square brackets is not appropriate in every case and should be used only in certain circumstances. In these cases, conditions for use explaining when the text should be used are given in column (5). For example, P284 states, “[**In case of inadequate ventilation**] wear respiratory protection.” This statement is given with the condition for use – *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.* The application of the condition for use should be interpreted as follows. If additional information is provided with the chemical explaining what type of ventilation would be adequate for safe use, the text in square brackets may be used. In this case, the statement would read, “**In case of inadequate ventilation wear respiratory protection.**” However, if the chemical is supplied without such information, the text in square brackets should not be used, and the precautionary statement should read, “**Wear respiratory protection.**”

Justification

The possibility of using chemicals without respiratory protection in conditions of good ventilation exists for both respiratory sensitizers and acutely toxic chemicals. However, in the absence of further information users may find it difficult to judge what is ‘adequate ventilation’. Therefore if the phrase ‘in case of inadequate ventilation’ is used, additional information should be required with the chemical to explain what ventilation conditions would be adequate.

Because the use of square brackets would be new in the GHS precautionary statements, an additional explanation seems justified.

6. **P307 IF exposed:**
P308 IF exposed or concerned:
P309 IF exposed or if you feel unwell:

Current situation

These occur only in combination with statements advising the user to seeking medical advice.

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

- assigned to specific target organ toxicity, single exposure, category 1.

P308 + P313 IF exposed or concerned: Get medical advice/attention

- assigned to all CMR categories.

P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician

- assigned to specific target organ toxicity, single exposure, category 2.

Proposal

Delete P307 and P309 and replace them with P308, so that P308 is used in all three combined precautionary statements above. They would now read (not including changes proposed to P311):

~~P307~~–P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician

P308 + P313 IF exposed or concerned: Get medical advice/attention

~~P309~~–P308 + P311 IF exposed or concerned ~~if you feel unwell~~: Call a POISON CENTER or doctor/physician

Justification

P307, P308 and P309 are intended to advise seeking medical attention in a number of scenarios: exposure without symptoms or with delayed symptoms, symptoms without known exposure, or exposure with immediate symptoms. However, all these eventualities are covered by P308 so rationalisation can be achieved without loss of protection by using P308 throughout. This also has the advantage of simplifying this set of precautionary statements by using a single formulation instead of several slightly different ones.

7. **P310 Immediately call a POISON CENTER or doctor/physician**
P311 Call a POISON CENTER or doctor/physician
P312 Call a POISON CENTER or doctor/physician if you feel unwell

Current situation

The statements above are used for numerous health hazard classes and categories in conjunction with a prefix, e.g. “IF INHALED:”, “IF SWALLOWED:”, “if exposed or concerned:” etc. They are generally used to advise seeking advice where there will be acute effects (acute toxicity, skin corrosion, severe eye damage, STOT single exposure and other classes).

Proposal

Edit the statements to read ‘call a POISON CENTER/doctor/ ...’. In full they would read:

P310 Immediately call a POISON CENTER ~~or /doctor/physician/...~~

P311 Call a POISON CENTER ~~or /doctor/physician/....~~

P312 Call a POISON CENTER ~~or /doctor/physician/....~~ if you feel unwell

Add a note in conditions for use:

“Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.”

Justification

The word ‘physician’ is not in current usage in either US or British English so there seems no need to offer this as an option. Countries have differing arrangements for delivery of first-line medical advice, in some countries members of the public should call Poison Centres, whereas in others (e.g. UK) this is not the case and Poison Centres only deal with medical professionals. The proposed amendment retains the reference to Poison Centres but gives some flexibility for the appropriate advice to be given in each country.

8. P321 Specific treatment (see ... on this label)
P322 Specific measures (see ... on this label)

Current situation

P321 is given for various categories within acute toxicity (oral and inhalation), skin corrosion, skin irritation and skin sensitization, and specific target organ toxicity. The type of treatment is specified in conditions for use and may be a specific antidote (for acute toxicity oral 1, 2), a cleansing agent (for skin corrosion/irritation/sensitization categories) or other unspecified measures.

P322 is only assigned to acute toxicity, dermal categories 1, 2, 3 and 4, and is given the condition for use:

“... Reference to supplemental first aid instruction.

- *if immediate measures such as specific cleansing agent is advised.*”

Proposal

Delete P322 and use P321 instead for the categories to which it applies. Therefore, acute toxicity, dermal, categories 1, 2, 3 and 4 would all receive the statement:

P321 Specific treatment (see ... on this label)

With the condition for use:

“... Reference to supplemental first aid instruction.

- *if immediate measures such as specific cleansing agent is advised.*”

Justification

Rationalisation. The GHS currently draws no clear distinction between ‘treatment’ and ‘measures’ – i.e. between cases where P321 and P322 applies. E.g. while the conditions for use for P322 refer to ‘measures’ and use of cleansing agents, the conditions for use for P321 (specific treatment) also refer to both measures (e.g. for acute toxicity, inhalation category 3), and to cleansing agents (e.g. for skin corrosion 1A, 1B and 1C). Therefore it would be simpler just to use the one formulation (specific treatment) to refer to all cases.

9. P332 If skin irritation occurs:
P333 If skin irritation or rash occurs:

Current situation

The statements only occur in combination with references to seeking medical attention.

P332 + P313 If skin irritation occurs: Get medical advice/attention

applies to skin irritation categories 2 and 3.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention

applies to skin sensitizers, 1, 1A and 1B.

Proposal

Add a condition for use to P332 + P313:

“- may be omitted if P333 + P313 appears on the label”

Justification

Evident redundancy where both statements appear, P313 + P333 is the stronger of the two so should take precedence.

10. **P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.**
P341 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Current situation

Respiratory sensitisers are assigned P304 + P341:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Chemicals classified as acutely toxic by inhalation, categories 1, 2, 3 and 4 are assigned P304 + P340:

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Proposal

For respiratory sensitisers use P304 + P340 instead of P304 + P341.

Also, edit P340 to read: “Remove person to fresh air and ensure comfortable breathing”.

Respiratory sensitisers would now be assigned:

P304 + ~~P341~~ P340

IF INHALED: ~~If breathing is difficult, remove victim~~ person to fresh air and ~~keep at rest in a position~~ ensure comfortable for breathing.

Chemicals classified as acutely toxic by inhalation, categories 1, 2, 3 and 4 would be assigned:

P304 + P340

IF INHALED: remove ~~victim~~ person to fresh air and ~~keep at rest in a position~~ ensure comfortable for breathing.

Justification

The double conditional in P304 + P341 “IF INHALED: If breathing is difficult...” is confusing and seems unnecessary. It seems simpler to require “IF INHALED: remove person to fresh air...”.

The phrasing “remove victim [person] to fresh air and keep at rest in a position comfortable for breathing” is rather long and complex. The same essential precaution could be conveyed using the shorter wording “remove victim [person] to fresh air and ensure comfortable breathing”.

“Victim” seems rather an emotive term, so the more neutral “person” is preferable.

11. **P350 Gently wash with plenty of soap and water**
P352 Wash with plenty of soap and water

Current situation

P350 and P352 both occur only in combination with P302 'IF ON SKIN:'.

Chemicals classified as acutely toxic, dermal, categories 1 and 2 are assigned:

P302 + P350

IF ON SKIN: Gently wash with plenty of soap and water

Chemicals classified as acutely toxic, dermal category 3 and 4, skin irritant, category 2 and skin sensitisation 1, 1A and 1B, are assigned:

P302 + P352

IF ON SKIN: wash with plenty of soap and water.

Proposal

Delete P350 and use P302 + P352 instead for chemicals classified as acutely toxic 1 and 2.

Amend P352 to read 'wash with plenty of water/...', and add the condition for use, "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".

Chemicals classified as acutely toxic 1, 2, 3 and 4, skin irritant 2, and skin sensitizer 1, 1A and 1B, would therefore receive:

P302 + P352

IF ON SKIN: wash with plenty of ~~soap and 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.

Justification

'Gently' seems inappropriate for more severe categories of dermal acute toxicity, quick action is paramount and this phrasing may discourage it.

The most important precaution for all the above hazard categories is to wash the skin in plenty of water as soon as possible, advising use of soap could cause unnecessary delay.

There should be flexibility to require a cleansing agent other than water, but only in exceptional cases where water is clearly not appropriate.

12. **P361 Remove/take off immediately all contaminated clothing**
P362 Take off contaminated clothing and wash before reuse
P363 Wash contaminated clothing before reuse

Current situation

These statements are assigned in different combinations to a number of different hazard categories. The current assignment is summarised in the tables below. (The tables include changes proposed in this document to precautionary statements other than P361–P363).

<i>Precautionary statements</i>	<i>Hazard class/category</i>
P361 Remove/take off immediately all contaminated clothing	Flammable liquids 1, 2, 3
	Acute toxicity, dermal 1, 2, 3
	Skin corrosion 1A, 1B, 1C
P362 Take off contaminated clothing and wash before reuse	Skin irritation 2
P363 Wash contaminated clothing before reuse	Acute toxicity, dermal 1, 2, 3
	Acute toxicity, dermal 4
	Skin corrosion 1A, 1B, 1C
	Skin sensitization 1, 1A, 1B
<i>Hazard class/category</i>	<i>Precautionary statements</i>
Flammable liquids 1, 2, 3	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Acute toxicity, dermal 1, 2, 3	P302 + P352 IF ON SKIN: Wash with plenty of soap and water/... P361 Remove/Take off immediately all contaminated clothing. P363 Wash contaminated clothing before reuse.
Acute toxicity, dermal 4	P302 + P352 IF ON SKIN: Wash with plenty of soap and water/... P363 Wash contaminated clothing before reuse.
Skin corrosion 1A, 1B, 1C	P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse.
Skin irritation 2	P302 + P352 IF ON SKIN: Wash with plenty of soap and water/... P362 Take off contaminated clothing and wash before re-use
Skin sensitization 1, 1A, 1B	P302 + P352 IF ON SKIN: Wash with plenty of soap and water/... P363 Wash contaminated clothing before reuse.

Proposal

Include a statement advising removal of contaminated clothing for acute toxicity, dermal 4 and skin sensitization 1, 1A, 1B (currently they only require “wash contaminated clothing before reuse”).

Delete “and wash before reuse” from P362. Introduce a further (partial) precautionary statement, “and wash it before reuse”, to enable combinations to be formed with P361 and P362, e.g. P361 + P364 “Remove/Take off immediately all contaminated clothing and wash it before reuse”

Delete “Remove” from “Remove/Take off...”

The revised assignment of precautionary statements to the hazard categories above would be:

<i>Precautionary statements</i>	<i>Hazard class/category</i>
P361 Remove/ Take off immediately all contaminated clothing	Flammable liquids 1, 2, 3
	Acute toxicity, dermal 1, 2, 3
	Skin corrosion 1A, 1B, 1C
P362 Take off contaminated clothing and wash before reuse	Skin irritation 2
	<u>Acute toxicity, dermal</u> 4
	<u>Skin sensitization</u> 1, 1A, 1B
P363 Wash contaminated clothing before reuse	Acute toxicity, dermal 1, 2, 3
	Acute toxicity, dermal 4
	Skin corrosion 1A, 1B, 1C
	Skin sensitization 1A, 1B, 2
<u>P364</u> <u>and wash it before reuse</u>	<u>Acute toxicity, dermal</u> 1, 2, 3, 4
	<u>Skin irritation</u> 2
	<u>Skin sensitization</u> 1, 1A, 1B

<i>Hazard class/category</i>	<i>Precautionary statements</i>
Flammable liquids 1, 2, 3	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Acute toxicity, dermal 1, 2, 3	P302 + P352 IF ON SKIN: Wash with plenty of soap and water/... P361+ P364 <u>Remove/</u>Take off immediately all contaminated clothing <u>and wash it before reuse</u> P363 <u>Wash contaminated clothing before reuse</u>
Acute toxicity, dermal 4	P302 + P352 IF ON SKIN: Wash with plenty of soap and water/... P363 P362 + P364 <u>Take off contaminated clothing and wash it before reuse</u>
Skin corrosion 1A, 1B, 1C	P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse.
Skin irritation 2	P302 + P352 IF ON SKIN: Wash with plenty of soap and water/... P362+ P364 <u>Take off contaminated clothing and wash before reuse and wash it before reuse</u>
Skin sensitization 1, 1A, 1B	P302 + P352 IF ON SKIN: Wash with plenty of soap and water/... P363 <u>Wash contaminated clothing before reuse.</u> <u>P362 + P364</u> <u>Take off contaminated clothing and wash it before reuse</u>

Justification

Acute toxicity, dermal category 4 and skin sensitization 1, 1A and 1B should also be assigned an instruction to remove contaminated clothing since this will occur within the scope of “IF ON SKIN:” – removal of contaminated clothing is advisable if contaminant has also got into contact with skin.

Currently there is a mixture of precautionary statements advising single actions (e.g. “Remove/Take off immediately all contaminated clothing” and “Wash contaminated clothing before reuse”) and what are in effect combination statements (e.g. “Take off contaminated clothing and wash before reuse”). Adding the partial statement ‘and wash it before reuse’ makes the situation simpler by allowing all the statements to give single instructions. It also enables combination statements to be formed when appropriate, e.g. P361 + P364 “Remove/Take off immediately all contaminated clothing and wash it before reuse”.

P363 is preserved as a single statement since for Skin corrosion and flammable liquids it is not possible to combine it with P361 “Remove/Take off immediately all contaminated clothing”, as P361 is followed by P353, “Rinse skin with water/shower”.

Adding ‘it’ in “Remove/Take off immediately all contaminated clothing and wash it before reuse” etc. makes clear that it is the clothing (not the skin) that needs to be washed after clothing is removed.

“Remove” means the same as “Take off”, so is redundant.

13. P378 Use ... for extinction

Current situation

This statement is used in combination with P370 “**In case of fire:**” for a number of hazard classes including flammable liquids and solids and oxidising liquids and solids.

Proposal

Rephrase P378 as “**Use... ~~for extinction~~ to extinguish”.**

Justification

“Extinction” is not in common usage in relation to fires. “To extinguish” is clearer.

Section 2

Examples of substances with associated precautionary statements with effect of rationalisation proposals

Substances classifications are those listed in Table 3.1 of part 3 of Annex 3 of Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. The unofficial consolidated table available at <http://ecb.jrc.ec.europa.eu/classification-labelling> has been used.

Example 1: hydrazine bis(3-carboxy-4-hydroxybenzenesulfonate)

Classification

Carc 1B
Acute tox 4
Skin Corr 1B
Skin Sens 1
Aquatic Chronic 3

Hazard statements

H350 May cause cancer
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H412 Harmful to aquatic life with long lasting effects

Precautionary statements

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P260 Do not breathe dusts or mists
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash... thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P272 Contaminated work clothing should not be allowed out of the workplace
P273 Avoid release to the environment
P280 Wear protective gloves
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required
P301 + P312 IF swallowed: call a POISON CENTER or doctor/physician if you feel unwell
P301 + P330 + P331 IF swallowed: Rinse mouth. Do NOT induce vomiting
P302 + P352 IF ON SKIN: Wash with plenty of soap and water
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 If exposed or concerned: Get medical advice/attention

P321	Specific treatment (see... on this label)
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up
P501	Dispose of contents/container to...

Precautionary statements after rationalisation proposals applied

P201	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dusts or mists
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash... thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required
P301 + P312	IF SWALLOWED: call a POISON CENTER or/doctor/physician... if you feel unwell
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302 + P352	IF ON SKIN: Wash with plenty of soap and water/...
P303 + P361 + P353	IF ON SKIN (or hair): Remove. Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove victim person to fresh air and keep at rest in a position ensure comfortable for breathing
P310	Immediately call a POISON CENTER or/doctor/physician...
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	If exposed or concerned: Get medical advice/attention
P321	Specific treatment (see... on this label)
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
<u>P362 + P364</u>	<u>Take off contaminated clothing and wash it before re-use</u>
P363	Wash contaminated clothing before reuse.
P405	Store locked up
P501	Dispose of contents/container to...

Precautionary statements after rationalisation proposals applied (clean)

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dusts or mists
P264	Wash... thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves
P280	Wear protective gloves/protective clothing/eye protection/face protection.
<i>[comment: appropriate PPE would need to be specified to cover all hazards of substance]</i>	
P301 + P312	IF SWALLOWED: call a POISON CENTER/doctor/... if you feel unwell
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302 + P352	IF ON SKIN: Wash with plenty of water/...
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340	IF INHALED: Remove person to fresh air and ensure comfortable breathing
P310	Immediately call a POISON CENTER/doctor/ ...
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	If exposed or concerned: Get medical advice/attention
P321	Specific treatment (see... on this label)
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before re-use
P405	Store locked up
P501	Dispose of contents/container to...

Example 2: Hexyl acrylate (CAS no: 2499-95-8)

Classification

Eye irritancy 2
 STOT SE 3
 Skin irritancy 2
 Skin sensitisation 1
 Aquatic chronic 2

Hazard statements

H319 Causes serious eye irritation
 H335 May cause respiratory irritation
 H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H411 Toxic to aquatic life with long lasting effects

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash ... thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear eye protection/face protection.
 P280 Wear protective gloves.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P321 Specific treatment (see ... on this label)
 P332 + P313 If skin irritation occurs: Get medical advice/attention.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337 + P313 If eye irritation persists: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.
 P363 Wash contaminated clothing before reuse.
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed
 P405 Store locked up.
 P501 Dispose of contents/container to...

Precautionary statements after rationalisation proposals applied

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear eye protection/face protection.
P280	Wear protective gloves.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water/...
P304 + P340	IF INHALED: Remove victim person to fresh air and keep at rest in a position <u>ensure</u> comfortable for breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or/doctor/physician... if you feel unwell.
P321	Specific treatment (see ... on this label)
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P362 + P364	Take off contaminated clothing and wash it before reuse
P403 + P233	Store in a well-ventilated place. Keep container tightly closed
P405	Store locked up.
P501	Dispose of contents/container to...

Precautionary statements after rationalisation proposals applied (clean)

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear eye protection/face protection.
P280	Wear protective gloves.
P302 + P352	IF ON SKIN: Wash with plenty of water/...
P304 + P340	IF INHALED: Remove person to fresh air and ensure comfortable breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P321	Specific treatment (see ... on this label)
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse
P403 + P233	Store in a well-ventilated place. Keep container tightly closed
P405	Store locked up.
P501	Dispose of contents/container to...

Example 3: 2,2-dibromo-2-nitroethanol (CAS no: 69094-18-4)**Classification**

Explosive 1.1
 Carcinogenic 2
 Acute Tox. 4
 STOT RE 2
 Skin Corr. 1A
 Skin Sens. 1
 Aquatic Acute 1
 Aquatic Chronic 1

Hazard statements

H201 Explosive; mass explosion hazard
 H302 Harmful if swallowed
 H314 Causes severe burns and eye damage
 H317 May cause an allergic skin reaction
 H351 Suspected of causing cancer
 H373 May cause damage to organs through prolonged or repeated exposure
 H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

P201 Obtain special instructions before use
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
 P230 Keep wetted with ...
 P240 Ground/bond container and receiving equipment.
 P250 Do not subject to grinding/shock/.../friction.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash ... thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P281 Use personal protective equipment as required.
 P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+352 IF ON SKIN: Wash with plenty of soap and water.
 P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P310 Immediately call a POISON CENTER or doctor/physician
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+313 IF exposed or concerned: Get medical advice/attention.
 P333+313 If skin irritation or rash occurs: Get medical advice/attention.
 P370+380: In case of fire: Evacuate area.

P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P372	Explosion risk in case of fire
P373	DO NOT fight fire when fire reaches explosives.
P391	Collect spillage.
P401	Store in accordance with local/regional/national/international regulations (to be specified).
P405	Store locked up.
P501	Dispose of contents/container to

Precautionary statements after rationalisation proposals applied

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P230	Keep wetted with ...
P240	Ground/bond container and receiving equipment.
P250	Do not subject to grinding/shock/.../friction.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P301+312	IF SWALLOWED: Call a POISON CENTER or/doctor/physician... if you feel unwell.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water/...
P303+361+353	IF ON SKIN (or hair): Remove. Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove <u>victim person</u> to fresh air and keep at rest in a position ensure comfortable for breathing
P310	Immediately a POISON CENTER or/doctor/physician...
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P370+380:	In case of fire: Evacuate area.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
<u>P362 + P364</u>	<u>Take off contaminated clothing and wash it before re-use</u>
P363	Wash contaminated clothing before reuse.
P372	Explosion risk in case of fire
P373	DO NOT fight fire when fire reaches explosives.
P391	Collect spillage.
P401	Store ...in accordance with local/regional/national/international regulations (to be specified).
P405	Store locked up.
P501	Dispose of contents/container to

Precautionary statements after rationalisation proposals applied (clean)

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P230	Keep wetted with ...
P240	Ground/bond container and receiving equipment.
P250	Do not subject to grinding/shock/.../friction.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+312	IF SWALLOWED: Call a POISON CENTER/doctor ... if you feel unwell.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water/...
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and ensure comfortable breathing
P310	Immediately a POISON CENTER/doctor/ ...
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P370+380:	In case of fire: Evacuate area.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P362 + P364	Take off contaminated clothing and wash it before re-use
P372	Explosion risk in case of fire
P373	DO NOT fight fire when fire reaches explosives.
P391	Collect spillage.
P401	Store ...in accordance with local/regional/national/international regulations (to be specified).
P405	Store locked up.
P501	Dispose of contents/container to

Section 3

Excerpts from Annex 3 (Sections 2 and 3) of the GHS, as amended in accordance with the proposal in document ST/SG/AC.10/C.4/2010/12

Annex 3: Section 2 “Codification of precautionary statements”

A3.2.1 to A3.2.3.6 [unchanged]

A3.2.3.7 Insert a new paragraph to read as follows:

“A3.2.3.7 Where square brackets [...] appear around some text in a precautionary statement, this indicates that the text in square brackets is not appropriate in every case and should be used only in certain circumstances. In these cases, conditions for use explaining when the text should be used are given in column (5). For example, P284 states, “**[In case of inadequate ventilation] wear respiratory protection.**” This statement is given with the condition for use – *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.* The application of the condition for use should be interpreted as follows. If additional information is provided with the chemical explaining what type of ventilation would be adequate for safe use, the text in square brackets may be used. In this case, the statement would read, “**In case of inadequate ventilation wear respiratory protection.**” However, if the chemical is supplied without such information, the text in square brackets should not be used, and the precautionary statement should read “**Wear respiratory protection.**”

A3.2.3.7 Amend as follows:

“A3.2.3.8 To facilitate translation into the languages of users, precautionary statements have been broken down into individual sentences or parts of sentences in the tables in this section. In a number of instances the text that appears on a GHS label requires that these be added back together. This is indicated in this annex by codes conjoined with a plus sign “+”. For example P305 + P351 + P338 indicates that the text to appear on the label is “**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**” These additive precautionary statements can also be found at the end of each of the precautionary statement tables in this section. Translation of only the single precautionary statements is required, as this will enable the compilation of the additive precautionary statements.”

Table A3.2.1: Codification of general precautionary statements

[unchanged]

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)
P223	Do not allow contact with water.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2	
P244	Keep valves and fittings free from oil and grease.	Oxidizing gases (chapter 2.4)	1	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	Acute toxicity – inhalation (chapter 3.1)	3, 4	Manufacturer/supplier or the competent authority to specify applicable conditions. <i>- may be omitted if P260 is given on the label</i>
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
		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	
		Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	1, 2, 3, 4	

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
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	- <i>Specify face protection.</i> Manufacturer/supplier or the competent authority to specify type of equipment.
		Flammable liquids (chapter 2.6)	1, 2, 3, 4	- <i>Specify protective gloves and eye/face protection.</i> Manufacturer/supplier or the competent authority to specify type of equipment.
		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	
		Self-heating substances and mixtures (chapter 2.11)	1, 2	
		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 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 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 type of equipment.		
Severe eye damage (chapter 3.3)	1	- <i>Specify eye/face protection.</i>		

Code (1)	Prevention precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
		Eye irritation (chapter 3.3)	2A	Manufacturer/supplier or the competent authority to specify type of equipment.
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	Manufacturer/supplier or the competent authority to specify type of equipment.
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	Manufacturer/supplier or the competent authority to specify type of equipment.
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	Manufacturer/supplier or the competent authority to specify type of equipment.
P284	[In case of inadequate ventilation] wear respiratory protection.	Acute toxicity, inhalation (chapter 3.1)	1, 2	Manufacturer/supplier or the competent authority to specify equipment.
		Respiratory sensitization (chapter 3.4)	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.</i>

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)
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.
		Acute toxicity, dermal (chapter 3.1)	1, 2	
		Acute toxicity, inhalation (chapter 3.1)	1, 2	
		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	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
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	
P321	Specific treatment (see ... on this label).	Acute toxicity, oral (chapter 3.1)	1, 2, 3	... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required.</i>
		Acute toxicity, dermal (chapter 3.1)	1,2, 3, 4	... Reference to supplemental first aid instruction. - <i>if immediate measures such as specific cleansing agent is advised.</i>
		Acute toxicity, inhalation (chapter 3.1)	3	... Reference to supplemental first aid instruction. - <i>if immediate specific measures are required.</i>
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	... Reference to supplemental first aid instruction. - <i>manufacturer/supplier or competent authority may specify a cleansing agent if appropriate.</i>
		Skin irritation (chapter 3.2)	2	
		Skin sensitization (chapter 3.4)	1, 1A, 1B	
Specific target organ toxicity, single exposure (chapter 3.8)	1	... Reference to supplemental first aid instruction. - <i>if immediate measures are required.</i>		
			3, 4	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P340	Remove person to fresh air and ensure comfortable 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	
P352	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	
		Oxidizing solids (chapter 2.14)	1	
P361	Take off immediately all contaminated clothing.	Flammable liquids (chapter 2.6)	1, 2, 3	
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P362	Take off contaminated clothing	Acute toxicity, dermal (chapter 3.1)	4	
		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 sensitization (chapter 3.4)	1, 1A, 1B	
P378	Use ... to extinguish.	Flammable liquids (chapter 2.6)	1, 2, 3, 4	... Manufacturer/supplier or the competent authority to specify
		Flammable solids (chapter 2.7)	1, 2	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	appropriate media - <i>if water increases risk.</i>
		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	
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.
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/shower.	Flammable liquids (chapter 2.6)	1, 2, 3	
		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 ensure comfortable 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	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (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	
P308 + P311	IF exposed or concerned: Call a POISON CENTER/doctor/...	Specific target organ toxicity, single exposure (chapter 3.8)	1	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)	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	
P308 + P311	IF exposed or concerned: Call a POISON CENTER/ doctor/...	Specific target organ toxicity, single exposure (chapter 3.8)	2	Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.
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 on the label</i>
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	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P370 + P378	In case of fire: Use ... to extinguish.	Flammable liquids (chapter 2.6)	1, 2, 3, 4	... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>
		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	
Oxidizing solids (chapter 2.14)	1			

Table A3.2.4: Codification of storage precautionary statements

[unchanged]

Table A3.2.5: Codification of disposal precautionary statements

[unchanged]

Annex 3: Section 3 “Use of precautionary statements”

A3.3.1 to A3.3.4.7 [unchanged]

A3.3.5 Amend the matrix as follows:

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
P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P372 Explosion risk in case of fire. P373 DO NOT fight fire when fire reaches explosives. P380 Evacuate area.	P401 Storein accordance with local/regional/national/international regulations (to be specified).	P501 Dispose of contents/container toin accordance with local/regional/national/international regulations (to be specified).

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/.../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.	

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
P210 Keep away from heat/sparks/open flames/hot surfaces.– No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P233 Keep container tightly closed. P240 Ground/Bond container and receiving equipment <ul style="list-style-type: none"> - <i>if electrostatically sensitive material is for reloading.</i> - <i>if product is volatile so as to generate hazardous atmosphere.</i> P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. ... Manufacturer/supplier or the competent authority to specify other equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/eye protection/face protection Manufacturer/supplier or the competent authority to specify type of equipment.	P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P370 + P378 In case of fire: Use ... to extinguish. ... Manufacturer/supplier or the competent authority to specify appropriate media. <ul style="list-style-type: none"> - <i>if water increases risk.</i> 	P403 + P235 Store in a well-ventilated place. Keep cool.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).

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 flames and hot surfaces. – No smoking. P280 Wear protective gloves/eye protection/face protection Manufacturer/supplier or the competent authority to specify type of equipment.	P370 + P378 In case of fire: Use ... to extinguish. ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>	P403 + P235 Store in a well-ventilated place. Keep cool.	P501 Dispose of contents/container to... in accordance with local/regional/national/international regulations (to be specified).

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
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P240 Ground/Bond container and receiving equipment. - <i>if electrostatically sensitive material is for reloading.</i> P241 Use explosion-proof electrical/ventilating/lighting/... /equipment. ... Manufacturer/supplier or the competent authority to specify other equipment. - <i>if dust clouds can occur.</i> P280 Wear protective gloves/eye protection/face protection Manufacturer/supplier or the competent authority to specify type of equipment.	P370 + P378 In case of fire: Use ... to extinguish ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>		

SELF-REACTIVE SUBSTANCES AND MIXTURES
(Chapter 2.8)

Symbol Exploding bomb



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

Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat/sparks/open flames/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. P234 Keep only in original container. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P370 + P378 In case of fire: Use ... to extinguish ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i> P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	P403 + P235 Store in a well-ventilated place. Keep cool. P411 Store at temperatures not exceeding ...°C/...°F. ... Manufacturer/supplier or the competent authority to specify temperature. P420 Store away from other materials.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).

SELF-REACTIVE SUBSTANCES AND MIXTURES
(Chapter 2.8)

Symbol Exploding bomb and flame

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



Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat/sparks/open flames/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. P234 Keep only in original container. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P370 + P378 In case of fire: Use ... to extinguish. ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk</i> P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	P403 + P235 Store in a well-ventilated place. Keep cool. P411 Store at temperatures not exceeding ...°C/...°F. ... Manufacturer/supplier or the competent authority to specify temperature. P420 Store away from other materials.	P501 Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified).

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/sparks/open flames/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 other incompatible materials.</p> <p>P234 Keep only in original container.</p> <p>P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.</p>	<p>P370 + P378 In case of fire: Use ... to extinguish ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i></p>	<p>P403 + P235 Store in a well-ventilated place. Keep cool.</p> <p>P411 Store at temperatures not exceeding ...°C/...°F. ...Manufacturer/supplier or the competent authority to specify temperature.</p> <p>P420 Store away from other materials.</p>	<p>P501 Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified).</p>

PYROPHORIC LIQUIDS
(Chapter 2.9)

Symbol Flame

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



Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition sources(s). P222 Do not allow contact with air. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P302 + P334 IF ON SKIN: Immerse in cool water/wrap with wet bandages P370 + P378 In case of fire: Use ... to extinguish ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>	P422 Store contents under Manufacturer/supplier or the competent authority to specify appropriate liquid or inert gas.	

PYROPHORIC SOLIDS
(Chapter 2.10)

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



Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P222 Do not allow contact with air. P280 Wear protective gloves/eye protection/face protection Manufacturer/supplier or the competent authority to specify type of equipment.	P335 + P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. P370 + P378 In case of fire: Use ... to extinguish ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>	P422 Store contents underManufacturer/supplier or the competent authority to specify appropriate liquid or inert gas.	

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
P223 Do not allow contact with water. P231 + P232 Handle under inert gas. Protect from moisture. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P335 + P334 Brush off loose particles from skin and immerse in cool water/wrap in wet bandages. P370 + P378 In case of fire: Use ... to extinguish ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>	P402 + P404 Store in a dry place. Store in a closed container.	P501 Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified).

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
P231 + P232 Handle under inert gas. Protect from moisture. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P370 + P378 In case of fire: Use ... to extinguish. ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>	P402 + P404 Store in a dry place. Store in a closed container.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).

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
P210 Keep away from heat. P220 Keep/Store away from clothing and other combustible materials. P221 Take any precaution to avoid mixing with combustibles/... ... Manufacturer/supplier or the competent authority to specify other incompatible materials. P280 Wear protective gloves /eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment. P283 Wear fire/flame resistant/retardant clothing.	P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. P370 + P378 In case of fire: Use ... to extinguish. ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>		P501 Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified).

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
P210 Keep away from heat. P220 Keep/Store away from clothing/.../combustible materials. ...Manufacturer/supplier or the competent authority to specify other incompatible materials. P221 Take any precaution to avoid mixing with combustibles/... ... Manufacturer/supplier or the competent authority to specify other incompatible materials. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P370 + P378 In case of fire: Use ... to extinguish. ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>		P501 Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified).

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
P210 Keep away from heat. P220 Keep away from clothing and other combustible materials. P221 Take any precaution to avoid mixing with combustibles/... ...Manufacturer/supplier or the competent authority to specify other incompatible materials. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment. P283 Wear fire/flame resistant/retardant clothing.	P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. P370 + P378 In case of fire: Use ... to extinguish. ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>		P501 Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified).

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.</p> <p>P220 Keep/Store away from clothing/.../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. Manufacturer/supplier or the competent authority to specify type of equipment.</p>	<p>P370 + P378 In case of fire: Use ... to extinguish. ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i></p>		<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).</p>

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) ... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required.</i> P330 Rinse mouth.	P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).

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
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) ... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required.</i> P330 Rinse mouth.	P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).

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).

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 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) ... Reference to supplemental first aid instruction. - <i>if immediate measures such as specific cleansing agent is advised.</i> P322 Specific measures (see ... on this label) ... Reference to supplemental first aid instruction. - <i>if immediate measures such as specific cleansing agent is advised.</i> P361 Take off immediately all contaminated clothing. 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).

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
P280 Wear protective gloves/protective clothing. Manufacturer/supplier or the competent authority to specify 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. 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. P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. - <i>if immediate measures such as specific cleansing agent is advised.</i> P322 Specific measures (see ... on this label) ... Reference to supplemental first aid instruction. - <i>if measures such as specific cleansing agent is advised.</i> P361 Take off immediately all contaminated clothing. 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).

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
P280 Wear protective gloves/protective clothing Manufacturer/supplier or the competent authority to specify 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. 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. P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. - <i>if immediate measures such as specific cleansing agent is advised.</i> P322 Specific measures (see ... on this label) ... Reference to supplemental first aid instruction. - <i>if measures such as specific cleansing agent is advised.</i> P362+P364 Take off contaminated clothing and wash it before reuse		P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).

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)

<p>Symbol Skull and crossbones</p>



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. Manufacturer/supplier or the competent authority to specify equipment. <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></p>	<p>P304 + P340 IF INHALED: Remove person to fresh air and ensure comfortable 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) ... Reference to supplemental first aid instruction. <i>- if immediate administration of antidote is required.</i></p>	<p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed. <i>- if product is volatile 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).</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
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. <i>- may be omitted if P260 is given on the label</i> P271 Use only outdoors or in a well-ventilated area.	P304 + P340 IF INHALED: Remove person to fresh air and ensure comfortable breathing. P311 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) ... Reference to supplemental first aid instruction. <i>- if immediate specific measures are required.</i>	P403 + P233 Store in a well-ventilated place. Keep container tightly closed. <i>- if product is volatile so as to generate hazardous atmosphere.</i> P405 Store locked up.	P501 Dispose of content/container to... ... in accordance with local/regional/national/international regulations (to be specified).

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. Manufacturer/supplier or the competent authority to specify applicable conditions. <i>- may be omitted if P260 is given on the label</i> P271 Use only outdoors or in a well-ventilated area.	P304 + P340 IF INHALED: Remove person to fresh air and ensure comfortable 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
P260 Do not breathe dusts or mists. <i>- if inhalable particles of dusts or mists may occur during use.</i> P264 Wash ...thoroughly after handling. <i>...Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</i> P280 Wear protective gloves/protective clothing/eye protection/face protection. <i>Manufacturer/supplier or the competent authority to specify type of equipment.</i>	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse. P304 + P340 IF INHALED: Remove person to fresh air and ensure comfortable breathing. P310 Immediately call a POISON CENTER/doctor/... <i>Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</i> P321 Specific treatment (see ... on this label) <i>... Reference to supplemental first aid instruction.</i> <i>- Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate.</i> P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	P405 Store locked up.	P501 Dispose of contents/container to... <i>... in accordance with local/regional/national/international regulations (to be specified).</i>

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
P264 Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P280 Wear protective gloves. Manufacturer/supplier or the competent authority to specify 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. P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. <i>- Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate.</i> P332 + P313 If skin irritation occurs: Get medical advice/attention. <i>- may be omitted when P333+P313 appears on the label</i> P362+P364 Take off contaminated clothing and wash it before reuse		

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 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 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.		

SENSITIZATION - RESPIRATORY

(Chapter 3.4)

<p>Symbol Health hazard</p>
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Hazard category	Signal word	Hazard statement	
1, 1A, 1B	Danger	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. <i>- may be omitted if P260 is given on the label</i></p> <p>P284 [In case of inadequate ventilation] wear respiratory protection Manufacturer/supplier or the competent authority to specify equipment <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></p>	<p>P362 Take off contaminated clothing.</p> <p>P304 + P340 IF INHALED: remove person to fresh air and ensure comfortable 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).</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. Manufacturer/supplier or the competent authority to specify applicable conditions. <i>- may be omitted if P260 is given on the label</i></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 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) ... Reference to supplemental first aid instruction. <i>- Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate.</i></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).</p>

GERM CELL MUTAGENICITY
(Chapter 3.5)

Symbol Health hazard

Hazard category	Signal word	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 face protection. Manufacturer/supplier or the competent authority to specify 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).

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 face protection. Manufacturer/supplier or the competent authority to specify 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).

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 face protection. Manufacturer/supplier or the competent authority to specify 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).

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

Symbol Health hazard

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



Precautionary statements			
Prevention	Response	Storage	Disposal
P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. 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 + 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. P308 + P313 IF exposed or concerned: Get medical advice/attention. P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. - if immediate measures are required.	P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).

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
P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. 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 + 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. 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).

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
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. <i>- may be omitted if P260 is given on the label</i> P271 Use only outdoors or in a well-ventilated area.	P304 + P340 IF INHALED: Remove person to fresh air and ensure comfortable 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.	P403 + P233 Store in a well-ventilated place. Keep container tightly closed. <i>- if product is volatile so as to generate hazardous atmosphere.</i> P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).

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).