#### UN/SCEGHS/43/INF.4

#### 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** 

19 September 2022

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Geneva, 7-9 December 2022
Item 3 (h) of the provisional agenda
Work on the Globally Harmonized System
of Classification and Labelling of Chemicals:
improvement of annexes 1 to 3 and further
rationalization of precautionary statements

#### Proposed amendments to precautionary statements in Annex 3 due to the respiratory sensitization hazard class

Transmitted by the experts from the United Kingdom on behalf of the informal working group on improving annexes 1, 2 and 3 of the GHS

This informal document sets out the changes proposed in document ST/SG/AC.10/C.4/2022/16. Existing (unchanged) text is shown in black, deleted text is shown in strikethrough, with new text shown in blue bold text.

Where a new respiratory sensitization entry receives exactly the same conditions for use (column 5) to that of another hazard class listed in an adjacent entry either above or below the new entry in the table, this is shown as a merged entry in column 5 of the table for these hazard classes in black text.

Where an existing merged conditions of use (column 5) entry has been split to allow for a new line entry for respiratory sensitization where no conditions for use are to be included, these conditions for use entries and the original text remains unchanged but is shown in red text.



#### Annex 3, Section 2

#### CODIFICATION AND USE OF PRECAUTIONARY STATEMENTS

A3.2.4.4 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) of the tables. 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." P264 states: "Wash hands [and ...] thoroughly after handling.". This statement is given with the condition for use: "- text in square brackets to be used when the manufacturer/supplier or the competent authority specify other parts of the body to be washed after handling. The application of the condition for use should be interpreted as follows: If additional information is provided with the chemical explaining what other part(s) of the body is to be washed following handling, then the text in brackets is to be used followed by the name of the relevant body part(s). However, if other part(s) of the body do not need to be specified, the text in square brackets should not be used, and the precautionary statement should read: "Wash hands thoroughly after handling.".

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**Table A3.2.2: Prevention precautionary statements** 

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P233	Keep container tightly closed.	Flammable liquids (chapter 2.6)	1, 2, 3	- if the liquid is volatile and may generate an explosive atmosphere.
		Pyrophoric liquids (chapter 2.9)	1	
		Pyrophoric solids (chapter 2.10)	1	
		Desensitized explosives (chapter 2.17)	1, 2, 3, 4	
		Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	<ul> <li>if the chemical is volatile and may generate a hazardous atmosphere.</li> </ul>
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	<ul> <li>if the chemical is volatile and may generate a hazardous atmosphere.</li> </ul>
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	Acute toxicity, inhalation (chapter 3.1)	1, 2	Manufacturer/supplier or the competent authority to
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	specify applicable eonditions physical state(s).
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	
		Specific target organ toxicity, repeated exposure (chapter 3.9)	1, 2	
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	- specify do not breathe dusts or mists
		Reproductive toxicity, effects on or via lactation (chapter 3.7)	Additional category	- if inhalable particles of dusts or mists may occur during use.
P261	Avoid breathing	Acute toxicity, inhalation (chapter 3.1)	3, 4	– may be omitted if P260 is given on the label.
	dust/fume/gas/mist/vapours/spray.	Respiratory sensitization (chapter 3.4)	<del>1, 1A, 1B</del>	Manufacturer/supplier or the competent authority to
		Skin sensitization (chapter 3.4)	1, 1A, 1B	specify applicable conditions.

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(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	
P271	Use only outdoors or in a well-ventilated	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3, 4	Manufacturer/supplier to specify what type of
	area with adequate ventilation.	<b>Respiratory sensitization (chapter 3.4)</b>	1, 1A, 1B	ventilation would be adequate for safe use on the
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	safety data sheet and in any supplemental safety instructions provided to consumers.
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/	Explosives (chapter 2.1)	1, 2A, 2B, 2C	Manufacturer/supplier or the competent authority to
		Flammable gases (chapter 2.2)	1A, Pyrophoric gas	specify the appropriate personal protective
		Flammable liquids (chapter 2.6)	1, 2, 3, 4	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	

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Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
		Desensitized explosives (chapter 2.17)	1, 2, 3, 4	
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3, 4	<ul> <li>Specify protective gloves/clothing.</li> <li>Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate.</li> </ul>
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	<ul> <li>Specify protective gloves/clothing and eye/face protection.</li> <li>Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate.</li> </ul>
		Skin irritation (chapter 3.2)	2	– Specify protective gloves.
		Skin sensitization (chapter 3.4)	1, 1A, 1B	Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate.
		Serious eye damage (chapter 3.3)	1	- Specify protective gloves and eye/face protection.
		Eye irritation (chapter 3.3)	2/2A	Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate.
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	<ul> <li>Specify protective gloves/clothing.</li> <li>Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate.</li> </ul>
		Germ cell mutagenicity (chapter 3.5)	1, 1A, 1B, 2	Manufacturer/supplier or the competent authority to
		Carcinogenicity (chapter 3.6)	1, 1A, 1B, 2	specify the appropriate personal protective
		Reproductive toxicity (chapter 3.7)	1, 1A, 1B, 2	equipment.
P284	[In case of inadequate ventilation] wear	Acute toxicity, inhalation (chapter 3.1)	1, 2	

Code

**(1)** 

**Prevention precautionary statements** 

**(2)** 

respiratory protection.

Conditions for use			
(5)			
information is provided with the chemical at the			
point of use that explains what type of ventilation			
would be adequate for safe use.			
Manufacturer/supplier or the competent authority to			
specify equipment.			
Manufacturer/supplier to specify on the safety			
data sheet what type of ventilation would be			
adequate for safe use and provide additional			
information with the chemical at the point of use			
that explains what type of respiratory equipment			

may also be needed.

**Table A3.2.4: Storage precautionary statements** 

Hazard category

**(4)** 

1, 1A, 1B

Hazard class

(3)

Respiratory sensitization (chapter 3.4)

Code	Storage precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P403	Store in a well-ventilated place.	Flammable gases (chapter 2.2)	Flammable gas	
			Pyrophoric gas	
			Chemically unstable gas A	
			Chemically unstable gas B	
			1B, 2	
		Chemicals under pressure (chapter 2.3)	1, 2, 3	
		Oxidizing gases (chapter 2.4)	1	
		Gases under pressure (chapter 2.5)	Compressed gas	
			Liquefied gas	
			Refrigerated liquefied gas	
			Dissolved gas	

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Code	Storage precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
		Flammable liquids (chapter 2.6)	1, 2, 3, 4	<ul> <li>for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.</li> </ul>
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	<ul> <li>except for temperature controlled self-</li> </ul>
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.
		Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	<ul> <li>if the chemical is volatile and may generate a hazardous atmosphere.</li> </ul>
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	<ul> <li>if the chemical is volatile and may generate a hazardous atmosphere.</li> </ul>
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	

### Annex 3, Section 3, Matrix of precautionary statements by hazard class/category

#### ACUTE TOXICITY – INHALATION

#### (CHAPTER 3.1)

Hazard category	Symbol	$\sim$	Signal word	Hazard	l statement
1	Skull and crossbones		Danger	H330	Fatal if inhaled
2	Skull and crossbones		Danger	H330	Fatal if inhaled

	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 physical state(s).  P271 Use only outdoors or in a well-ventilated area with adequate ventilation.  Manufacturer/supplier to specify what type of ventilation would be adequate for safe use on the safety data sheet and in any supplemental safety instructions provided to consumers.  P284 Hn case of inadequate ventilation} wear respiratory protection.  — text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use.  Manufacturer/supplier or the competent authority to specify equipment.  Manufacturer/supplier to specify on the safety data sheet what type of ventilation would be adequate for safe use and provide additional information with the chemical at the point of use that explains what type of respiratory equipment may also be needed.	P304 + P340  IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P316  Get emergency medical help immediately.  Competent Authority or manufacturer / supplier may add, 'Call' followed by the appropriate emergency telephone number, or the appropriate emergency medical help provider, for example, a Poison Centre, Emergency Centre or Doctor.  P320  Specific treatment is urgent (see on this label)  — if immediate administration of antidote is required.  Reference to supplemental first aid instruction.	P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  - if the chemical is volatile and may generate a hazardous atmosphere. P405 Store locked up.	P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).  Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.			

## ACUTE TOXICITY – INHALATION (CHAPTER 3.1)

Hazard category

3

Symbol

Skull and crossbones



Signal word

Hazard statement

Danger

H331 Toxic if inhaled

Precautionary statements						
Prevention	Response	Storage	Disposal			
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.  - may be omitted if P260 is given on the label Manufacturer/supplier or the competent authority to specify applicable conditions. P271 Use only outdoors or in a well-ventilated area with adequate ventilation. Manufacturer/supplier to specify what type of ventilation would be adequate for safe use on the safety data sheet and in any supplemental safety instructions provided to consumers.	P304 + P340  IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P316  Get emergency medical help immediately. Competent Authority or manufacturer / supplier may add, 'Call' followed by the appropriate emergency telephone number, or the appropriate emergency medical help provider, for example, a Poison Centre, Emergency Centre or Doctor.  P321  Specific treatment (see on this label)  — if immediate specific measures are required.  Reference to supplemental first aid instruction.	P403 + P233  Store in a well-ventilated place.  Keep container tightly closed.  — if the chemical is volatile and may generate a hazardous atmosphere.  P405  Store locked up.	Dispose of content/container to in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.			

#### ACUTE TOXICITY – INHALATION

#### (**CHAPTER 3.1**)

Hazard category

Symbol

Exclamation mark



Signal word

**Hazard statement** 

Warning

H332 Harmful if inhaled

Precautionary statements					
Prevention	Response	Storage	Disposal		
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.  — may be omitted if P260 is given on the label Manufacturer/supplier or the competent authority to specify applicable conditions.	P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P317 Get medical help.				
P271 Use only outdoors or in a well-ventilated area with adequate ventilation. Manufacturer/supplier to specify what type of ventilation would be adequate for safe use on the safety data sheet and in any supplemental safety instructions provided to consumers.					

#### SENSITIZATION – RESPIRATORY

#### **(CHAPTER 3.4)**

**Hazard statement** 

Symbol Hazard category

1, 1A, 1B Health hazard



Signal word Danger H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

	Precautionary statements				
Prevention	Response	Storage	Disposal		
Keep container tightly closed. P260 Do not breathe dust/fume/gas/mist/ vapours/spray. Manufacturer/supplier or the competent authority to specify applicable physical state(s). P261 Avoid breathing dust/fume/gas/mist/ vapours/spray. —may be omitted if P260 is given on the label Manufacturer/supplier or the competent authority to specify applicable conditions. P271 Use only outdoors or with adequate ventilation. Manufacturer/supplier to specify what type of ventilation would be adequate for safe use on the safety data sheet and in any supplemental safety instructions provided to consumers.P280 Wear protective gloves/protective clothing. Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate. P284 Hn case of inadequate ventilation} wear respiratory protection. —text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use. Manufacturer/supplier or the competent authority to specify equipment. Manufacturer/supplier to specify on the safety data sheet what type of ventilation would be adequate for safe use and provide additional information with the chemical at the point of use that explains what type of ventilation would be adequate for safe use and provide additional information with the chemical at the point of use that explains what type of respiratory equipment may also be needed.	P304 + P340  IF INHALED: remove person to fresh air and keep comfortable for breathing.  P342 + P316  If experiencing respiratory symptoms: Get emergency medical help immediately.  Competent Authority or manufacturer / supplier may add, 'Call' followed by the appropriate emergency telephone number, or the appropriate emergency medical help provider, for example, a Poison Centre, Emergency Centre or Doctor.	P403 Store in a well-ventilated place.	P501  Dispose of contents/container to in accordance with local/regional/national/int ernational regulations (to be specified).  Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.		

## SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (CHAPTER 3.8)

Hazard category

Symbol

Health hazard



#### Signal word Hazard statement

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 physical state(s).  P264 Wash hands [and] thoroughly after handling.  - text in square brackets to be used when the manufacturer/supplier or the competent authority specify other parts of the body to be washed after handling.  P270 Do not eat, drink or smoke when using this product.	P308 + P316  IF exposed or concerned: Get emergency medical help immediately.  Competent Authority or manufacturer / supplier may add, 'Call' followed by the appropriate emergency telephone number, or the appropriate emergency medical help provider, for example, a Poison Centre, Emergency Centre or Doctor.  P321  Specific treatment (see on this label)  — if immediate measures are required.  Reference to supplemental first aid instruction.	P405 Store locked up.	P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

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## SPECIFIC TARGET ORGAN TOXICITY (Single exposure) (CHAPTER 3.8)

Hazard category

Symbol

Health hazard



Signal word Hazard statement

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 physical state(s).  P264 Wash hands [and] thoroughly after handling text in square brackets to be used when the manufacturer/supplier or the competent authority specify other parts of the body to be washed after handling.  P270 Do not eat, drink or smoke when using this product.	P308 + P316  IF exposed or concerned: Get emergency medical help immediately.  Competent Authority or manufacturer / supplier may add, 'Call' followed by the appropriate emergency telephone number, or the appropriate emergency medical help provider, for example, a Poison Centre, Emergency Centre or Doctor.	P405 Store locked up.	Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

## SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (CHAPTER 3.8)

Hazard category

Symbol

Exclamation mark

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Signal word

**Hazard statement** 

Warning

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

Precautionary statements			
Prevention	Response	Storage	Disposal
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.  - may be omitted if P260 is given on the label.  Manufacturer/supplier or the competent authority to specify applicable conditions.  P271 Use only outdoors or in a well-ventilated area with adequate ventilation.  Manufacturer/supplier to specify what type of ventilation would be adequate for safe use on the safety data sheet and in any supplemental safety instructions provided to consumers.	P304 + P340 <b>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</b> P319 <b>Get medical help if you feel unwell.</b>	P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  – if the chemical is volatile and may generate a hazardous atmosphere. P405 Store locked up.	P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

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## SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (CHAPTER 3.9)

Ungand astagony	Symbol	Signal word	Hazard statement
Hazard category	Symbol	Signai word	Hazaru statement

Health hazard



Danger H372 Causes damage to organs <...> through prolonged or repeated exposure <<...> <...> (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 physical state(s).  P264 Wash hands [and] thoroughly after handling text in square brackets to be used when the manufacturer/supplier or the competent authority specify other parts of the body to be washed after handling.	P319 Get medical help if you feel unwell.		P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).  Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.
P270  Do not eat, drink or smoke when using this product.			

## SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (CHAPTER 3.9)

Hazard categorySymbol2Health hazard



#### Signal word Hazard statement

Warning H373 May cause damage to organs <...> through prolonged or repeated exposure <<...>

<...> (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 eonditions physical state(s).	P319 Get medical help if you feel unwell.		P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).  Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.