

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

19 April 2018

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

Thirty-fifth session

Geneva, 4-6 July 2018

Item 4 (b) of the provisional agenda

Hazard communication:

**improvement of annexes 1 to 3 and further
rationalization of precautionary statements**

**Proposed changes to Annex 3 of the GHS to reflect hazard
sub-categories**




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

The amendments proposed in ST/SG/AC.10/C.4/2018/6 are reflected in the consolidated text below. New text is shown in red

Annex 1

Classification and labelling summary tables

A1.19 Skin corrosion/irritation (see Chapter 3.2 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Skin corrosion/irritation	1 1A, 1B, 1C^a			Danger	Causes severe skin burns and eye damage	H314
	2		<i>Not required</i>	Warning	Causes skin irritation	H315
	3 ^b	<i>No pictogram</i>	<i>Not required</i>	Warning	Causes mild skin irritation	H316

^a Sub-categories may be applied where data are sufficient and where required by a competent authority

^b Applies to some authorities

Annex 3

Section 1

Table A3.1.2: Hazard statement codes for health hazards

Code (1)	Health hazard statements (2)	Hazard class (GHS chapter) (3)	Hazard category (4)
H314	Causes severe skin burns and eye damage	Skin corrosion/irritation (chapter 3.2)	1, 1A, 1B, 1C
H319	Causes serious eye irritation	Serious eye damage/eye irritation (chapter 3.3)	2/2A

Section 2

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)
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	Acute toxicity – inhalation (chapter 3.1)	1, 2	Manufacturer/supplier or the competent authority to specify applicable conditions. – <i>specify do not breathe dusts or mists</i> – <i>if inhalable particles of dusts or mists may occur during use.</i>
		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	
		Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category	
P264	Wash ... thoroughly after handling.	Acute toxicity – oral (chapter 3.1)	1, 2, 3, 4	...Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.
		Acute toxicity – dermal (chapter 3.1)	1, 2	
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
		Skin irritation (chapter 3.2)	2	
		Eye irritation (chapter 3.3)	2/2A, 2B	
		Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category	
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	
Specific target organ toxicity, repeated exposure (chapter 3.9)	1	...Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.		

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/hearing protection/...	Explosives (chapter 2.1)	Unstable explosive and divisions 1.1, 1.2, 1.3, 1.4, 1.5	Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment.
		Flammable gases (chapter 2.2)	Pyrophoric gas	
		Flammable liquids (chapter 2.6)	1, 2, 3, 4	
		Flammable solids (chapter 2.7)	1, 2	
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
		Pyrophoric liquids (chapter 2.9)	1	
		Pyrophoric solids (chapter 2.10)	1	
		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			

P280 (suite)	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...	Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment
		Desensitized explosives (chapter 2.17)	1, 2, 3, 4	
		Acute toxicity – dermal (chapter 3.1)	1, 2, 3, 4	– <i>Specify protective gloves/clothing.</i> Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate.
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	– <i>Specify protective gloves/clothing and eye/face protection.</i> Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate.
		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 may further specify type of equipment where appropriate.
		Serious eye damage (chapter 3.3)	1	– <i>Specify eye/face protection.</i>
		Eye irritation (chapter 3.3)	2/2A	Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate.
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment.
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
Reproductive toxicity (chapter 3.7)	1A, 1B, 2			

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)
P301	IF SWALLOWED:	Acute toxicity, oral (chapter 3.1)	1, 2, 3, 4, 5	
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
		Aspiration hazard (chapter 3.10)	1, 2	
P303	IF ON SKIN (or hair):	Flammable liquids (chapter 2.6)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
P304	IF INHALED:	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3, 4, 5	
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P305	IF IN EYES:	Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
		Serious eye damage (chapter 3.3)	1	
		Eye irritation (chapter 3.3)	2/2A, 2B	
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)	1, 1A, 1B, 1C	
		Serious eye damage (chapter 3.3)	1	
		Aspiration hazard (chapter 3.10)	1, 2	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P313	Get medical advice/attention.	Skin irritation (chapter 3.2)	2, 3	Manufacturer/supplier or the competent authority to select medical advice or attention as appropriate.
		Eye irritation (chapter 3.3)	2/2A, 2B	
		Skin sensitization (chapter 3.4)	1, 1A, 1B	
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	
		Reproductive toxicity, effects on or via lactation (chapter 3.7)	Additional category	
P321	Specific treatment (see ... on this label).	Acute toxicity, oral (chapter 3.1)	1, 2, 3	– if immediate administration of antidote is required. ...Reference to supplemental first aid instruction.
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3, 4	– if immediate measures such as specific cleansing agent is advised. ...Reference to supplemental first aid instruction.
		Acute toxicity, inhalation (chapter 3.1)	3	– if immediate specific measures are required. ...Reference to supplemental first aid instruction.
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	...Reference to supplemental first aid instruction.
		Skin irritation (chapter 3.2)	2	Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate.
		Skin sensitization (chapter 3.4)	1, 1A, 1B	
		Specific target organ toxicity, single exposure (chapter 3.8)	1	– if immediate measures are required. ...Reference to supplemental first aid instruction.
P330	Rinse mouth.	Acute toxicity, oral (chapter 3.1)	1, 2, 3, 4	
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
P331	Do NOT induce vomiting.	Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
		Aspiration hazard (chapter 3.10)	1, 2	
P337	If eye irritation persists:	Eye irritation (chapter 3.3)	2/2A, 2B	
P338	Remove contact lenses, if present and easy to do. Continue rinsing.	Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
		Serious eye damage (chapter 3.3)	1	
		Eye irritation (chapter 3.3)	2/2A, 2B	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P340	Remove person to fresh air and keep comfortable for breathing.	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3, 4	
		Skin corrosion (chapter 3.2)	1, 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	
P351	Rinse cautiously with water for several minutes.	Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
		Serious eye damage (chapter 3.3)	1	
		Eye irritation (chapter 3.3)	2/2A, 2B	
P353	Rinse skin with water [or shower].	Flammable liquids (chapter 2.6)	1, 2, 3	– text in square brackets to be included where the manufacturer/supplier or the competent authority considers it appropriate for the specific chemical.
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
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)	1, 1A, 1B, 1C	
P363	Wash contaminated clothing before reuse.	Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3, 4	
		Skin corrosion (chapter 3.2)	1, 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	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P337 + P313	If eye irritation persists: Get medical advice/attention.	Eye irritation (chapter 3.3)	2/2A, 2B	Manufacturer/supplier or the competent authority to select medical advice or attention as appropriate.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	Flammable liquids (chapter 2.6)	1, 2, 3	<i>– text in square brackets to be included where the manufacturer/supplier or the competent authority considers it appropriate for the specific chemical.</i>
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
		Serious eye damage (chapter 3.3)	1	
		Eye irritation (chapter 3.3)	2/2A, 2B	

Table A3.2.4: Codification of storage precautionary statements

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P405	Store locked up.	Acute toxicity, oral (chapter 3.1)	1, 2, 3	
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3	
		Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
		Aspiration hazard (chapter 3.10)	1, 2	

Table A3.2.5: Codification of disposal precautionary statements

Code (1)	Disposal precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P501	Dispose of contents/container to ...	Flammable liquids (chapter 2.6)	1, 2, 3, 4	... in accordance with local/regional/national/international regulation (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
		Oxidizing liquids (chapter 2.13)	1, 2, 3	
		Oxidizing solids (chapter 2.14)	1, 2, 3	
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	
		Desensitized explosives (chapter 2.17)	1, 2, 3, 4	
		Acute toxicity, oral (chapter 3.1)	1, 2, 3, 4	
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3, 4	
		Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	
<i>P501</i> (cont'd)	Dispose of contents/container to ...	Skin corrosion (chapter 3.2)	1, 1A, 1B, 1C	... in accordance with local/regional/national/international regulation (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
		Skin sensitization (chapter 3.4)	1, 1A, 1B	
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
		Specific target organ toxicity, repeated exposure (chapter 3.9)	1, 2	
		Aspiration hazard (chapter 3.10)	1, 2	
		Hazardous to the aquatic environment, acute hazard (chapter 4.1)	1, 2, 3	
		Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	1, 2, 3, 4	

Annex 3

Section 3

Skin corrosion/irritation (Chapter 3.2)

Hazard category
1, 1A to 1C

Symbol
Corrosion



Signal word
Danger

Hazard statement
H314 Causes severe skin burns
and eye damage

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P260 Do not breathe dusts or mists. – <i>if inhalable particles of dusts or mists may occur during use.</i></p> <p>P264 Wash ...thoroughly after handling. ...Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate.</p>	<p>P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. – <i>text in square brackets to be included where the manufacturer/supplier or the competent authority considers it appropriate for the specific chemical.</i></p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P310 Immediately call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p> <p>P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>	<p>P405 Store locked up.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

Eye damage/irritation (Chapter 3.3)

Hazard category
2/2A

Symbol
Corrosion



Signal word
Warning

Hazard statement
H319 Causes serious eye irritation

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P264 Wash ... thoroughly after handling. ...Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p>P280 Wear eye protection/face protection. Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate.</p>	<p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention. Manufacturer/supplier or the competent authority to select medical advice or attention as appropriate.</p>		

Germ cell mutagenicity (Chapter 3.5)

Hazard category	Symbol	Signal word	Hazard statement
1A, 1B	Health hazard	Danger	H340 May cause genetic defects <...>
2	Health hazard	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. <i>- omit for consumer products where P202 is used.</i> P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment.	P308 + P313 IF exposed or concerned: Get medical advice/attention. Manufacturer/supplier or the competent authority to select medical advice or attention as appropriate.	P405 Store locked up.	P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

Carcinogenicity (Chapter 3.6)

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



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>P201 Obtain special instructions before use. <i>- omit for consumer products where P202 is used.</i></p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment.</p>	<p>P308 + P313 IF exposed or concerned: Get medical advice/attention. Manufacturer/supplier or the competent authority to select medical advice or attention as appropriate.</p>	<p>P405 Store locked up.</p>	<p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.</p>

Reproductive toxicity (Chapter 3.7)

Hazard category	Symbol	Signal word	Hazard statement
1A, 1B	Health hazard	Danger	H360 May damage fertility or the unborn child <...> <<...>>
2	Health hazard	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. <i>- omit for consumer products where P202 is used.</i> P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment.	P308 + P313 IF exposed or concerned: Get medical advice/attention. Manufacturer/supplier or the competent authority to select medical advice or attention as appropriate.	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.