

# **ANNEXES**



# **ANNEX 1**












## **ALLOCATION OF LABEL ELEMENTS**









## Annex 1



### ALLOCATION OF LABEL ELEMENTS









For the GHS, the assigned pictogram, signal word and hazard statement are given in that order for each hazard category of the hazard class. Where the hazard class and or categories are covered under the *UN Recommendations on the Transport of Dangerous Goods, Model Regulations*, the assigned corresponding pictogram is given for each category below the GHS requirements.







<b>EXPLOSIVES</b>						
<b>Unstable explosives</b>	<b>Division 1.1</b>	<b>Division 1.2</b>	<b>Division 1.3</b>	<b>Division 1.4</b>	<b>Division 1.5</b>	<b>Division 1.6</b>
					<i>No pictogram</i> <b>1.5 on orange background</b>	<i>No pictogram</i> <b>1.6 on orange background</b>
<b>Danger</b>	<b>Danger</b>	<b>Danger</b>	<b>Danger</b>	<b>Warning</b>	<b>Danger</b>	<i>No signal word</i>
<b>Unstable explosive</b>	<b>Explosive; mass explosion hazard</b>	<b>Explosive; severe projection hazard</b>	<b>Explosive; fire, blast or projection hazard</b>	<b>Fire or projection hazard</b>	<b>May mass explode in fire</b>	<i>No hazard statement</i>
<b>No pictogram assigned in the UN Model Regulations (Transport not allowed)</b>						
<p><b>Notes on the colours of the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, pictogram elements:</b></p> <p>(1) For Divisions 1.1, 1.2 and 1.3: Symbol exploding bomb: black; background: orange; Division number (1.1, 1.2 or 1.3, as appropriate) and compatibility group (*) in bottom half and figure "1" in bottom corner: black.</p> <p>(2) For Divisions 1.4, 1.5, 1.6: Background: orange; Figures: black; Compatibility group (*) in bottom half and figure "1" in bottom corner: black.</p> <p>(3) The pictogram for Divisions 1.1, 1.2 and 1.3 is also assigned to substances which have an explosive subsidiary risk, but without the indication of the division number and the compatibility group (see also "Self-reactive substances" and "Organic peroxides").</p>						





FLAMMABLE GASES				
Category 1	Category 2	-	-	Note
 <b>Danger</b> <b>Extremely flammable gas</b>	<i>No pictogram</i>  <b>Warning</b> <b>Flammable gas</b>			<b>Under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, the symbol, number and border line may be shown in black instead of white. The background colour stays red in both cases.</b>
	<b>Not required under the <i>UN Model Regulations</i></b>			

FLAMMABLE AEROSOLS				
Category 1	Category 2	-	-	Note
 <b>Danger</b> <b>Extremely flammable aerosol</b>	 <b>Warning</b> <b>Flammable aerosol</b>			<b>Under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, the symbol, number and border line may be shown in black instead of white. The background colour stays red in both cases.</b>
				

OXIDIZING GASES				
Category 1	-	-	-	Note
 <p><b>Danger</b></p> <p>May cause or intensify fire; oxidizer</p>				<b>Pictogram colours:</b> Symbol and number: black. Background: yellow.
				










GASES UNDER PRESSURE				
Compressed gas	Liquefied gas	Refrigerated liquefied gas	Dissolved gas	Note
 <p><b>Warning</b></p> <p>Contains gas under pressure; may explode if heated</p>	 <p><b>Warning</b></p> <p>Contains gas under pressure; may explode if heated</p>	 <p><b>Warning</b></p> <p>Contains refrigerated gas; may cause cryogenic burns or injury</p>	 <p><b>Warning</b></p> <p>Contains gas under pressure; may explode if heated</p>	<b>Under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, pictogram elements:</b> (1) Not required for toxic or flammable gases. (2) The symbol, number and border line may be shown in white instead of black. The background stays green in both cases.
				

FLAMMABLE LIQUIDS				
Category 1	Category 2	Category 3	Category 4	Note
 <p><b>Danger</b></p> <p><b>Extremely flammable liquid and vapour</b></p>	 <p><b>Danger</b></p> <p><b>Highly flammable liquid and vapour</b></p>	 <p><b>Warning</b></p> <p><b>Flammable liquid and vapour</b></p>	<p><i>No pictogram</i></p> <p><b>Warning</b></p> <p><b>Combustible liquid</b></p>	<p>Under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, the symbol, number and border line may be shown in black instead of white. The background colour stays red in both cases.</p>
			<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods Model Regulations</i></p>	



FLAMMABLE SOLIDS				
Category 1	Category 2	-	-	Note
 <p><b>Danger</b></p> <p><b>Flammable solid</b></p>	 <p><b>Warning</b></p> <p><b>Flammable solid</b></p>			<p>Colours for pictogram under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>: Symbol and figure: black. Background: white with seven vertical red stripes.</p>
				





## SELF-REACTIVE SUBSTANCES AND MIXTURES





Type A	Type B	Types C and D	Types E and F	Type G
  <b>Danger</b> Heating may cause an explosion	   <b>Danger</b> Heating may cause a fire or explosion	  <b>Danger</b> Heating may cause a fire	  <b>Warning</b> Heating may cause a fire	<p><i>There are no label elements allocated to this hazard category</i></p>
Same as for explosives (follow same symbol selection process)	 			<b>Not required under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations</b>

- Notes:** (1) For Type B, under the *UN Recommendations on the Transport of Dangerous Goods, Model Regulations*, special provision 181 may apply (Exemption of explosive label with competent authority approval. See Chapter 3.3 of *UN Model Regulations* for more details).
- (2) *UN Model Regulations* pictogram colours:
- Self-reactive substance pictogram: Symbol and figure: black. Background: white with seven vertical red stripes.
  - Explosives pictogram: Symbol (exploding bomb): black; background orange; figure “1” in the bottom corner: black.







PYROPHORIC LIQUIDS				
Category 1	-	-	-	Note
 <p><b>Danger</b></p> <p>Catches fire spontaneously if exposed to air</p>				<p>Colours of <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, pictogram:</p> <p>Symbol and figure: black.</p> <p>Background: upper half: white; lower half: red.</p>
				







PYROPHORIC SOLIDS				
Category 1	-	-	-	Note
 <p><b>Danger</b></p> <p>Catches fire spontaneously if exposed to air</p>				<p>Colours of <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, pictogram:</p> <p>Symbol and figure: black.</p> <p>Background: upper half: white; lower half: red.</p>
				







## SELF-HEATING SUBSTANCES AND MIXTURES










Category 1	Category 2	-	-	Note
 <p style="text-align: center;"><b>Danger</b></p> <p style="text-align: center;">Self-heating; may catch fire</p>	 <p style="text-align: center;"><b>Warning</b></p> <p style="text-align: center;">Self-heating in large quantities; may catch fire</p>			<p style="text-align: center;"><b>Colours of UN Recommendations on the Transport of Dangerous Goods, Model Regulations, pictogram:</b></p> <p style="text-align: center;"><b>Symbol and figure: black.</b></p> <p style="text-align: center;"><b>Background: upper half: white; lower half: red.</b></p>
				

**SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER,  
EMIT FLAMMABLE GASES**



Category 1	Category 2	Category 3	-	Note
  <b>Danger</b>  <b>In contact with water releases flammable gases which may ignite spontaneously</b>	  <b>Danger</b>  <b>In contact with water releases flammable gases</b>	  <b>Warning</b>  <b>In contact with water releases flammable gases</b>	-	<b>Under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, the symbol, number and border line may be shown in black instead of white. The background stays blue in both cases.</b>
				








OXIDIZING LIQUIDS				
Category 1	Category 2	Category 3	-	Note
 <p><b>Danger</b> May cause fire or explosion; strong oxidizer</p>	 <p><b>Danger</b> May intensify fire; oxidizer</p>	 <p><b>Warning</b> May intensify fire; oxidizer</p>		<p>Under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, pictogram colours:</p> <p>Symbol and number: black. Background: yellow.</p>
 <p>5.1</p>	 <p>5.1</p>	 <p>5.1</p>		








OXIDIZING SOLIDS				
Category 1	Category 2	Category 3	-	Note
 <p><b>Danger</b> May cause fire or explosion; strong oxidizer</p>	 <p><b>Danger</b> May intensify fire; oxidizer</p>	 <p><b>Warning</b> May intensify fire; oxidizer</p>		<p>Under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, pictogram colours:</p> <p>Symbol and number: black. Background: yellow.</p>
 <p>5.1</p>	 <p>5.1</p>	 <p>5.1</p>		

ORGANIC PEROXIDES				
Type A	Type B	Types C and D	Types E and F	Type G
  <b>Danger</b> Heating may cause an explosion	    <b>Danger</b> Heating may cause a fire or explosion	  <b>Danger</b> Heating may cause a fire	  <b>Warning</b> Heating may cause a fire	<p><i>There are no label elements allocated to this hazard category</i></p>
Same as for explosives (follow same symbol selection process)	  			Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i> .
<p><b>Notes:</b> (1) For Type B, under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, special provision 181 may apply (Exemption of explosive label with competent authority approval. See Chapter 3.3 of UN Model Regulations for more details).</p> <p>(2) UN Model Regulations pictogram colours:            - Organic peroxide pictogram: Symbol (flame): black or white; background: upper half: red; lower half: yellow; Figure “5.2” in the bottom corner: black.            - Explosives pictogram: Symbol (exploding bomb): black; background orange; figure “1” in the bottom corner: black.</p> <p>(3) The label conforming to the colouring scheme in the table for oxidizing liquids may be used until 1 January 2011.</p>				








**CORROSIVE TO METALS**








Category 1	-	-	-	Note
 <p align="center"><b>Warning</b></p> <p align="center"><b>May be corrosive to metals</b></p>				<p>Under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, pictogram colours:</p>
				<p>Symbol: black background: upper half: white; lower half: black with white border; Figure 8: white.</p>

ACUTE TOXICITY: ORAL				
Category 1	Category 2	Category 3	Category 4	Category 5
				<i>No pictogram</i>
<b>Danger</b> Fatal if swallowed	<b>Danger</b> Fatal if swallowed	<b>Danger</b> Toxic if swallowed	<b>Warning</b> Harmful if swallowed	<b>Warning</b> May be harmful if swallowed
			<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i></p> <p><b>Note:</b> For gases under the UN Model Regulations, replace the number 6 in the bottom corner of the pictogram by 2. UN Model Regulations pictogram colours: Symbol and figure: black. Background: white.</p>	



ACUTE TOXICITY: SKIN				
Category 1	Category 2	Category 3	Category 4	Category 5
				<i>No pictogram</i>
<b>Danger</b> Fatal in contact with skin	<b>Danger</b> Fatal in contact with skin	<b>Danger</b> Toxic in contact with skin	<b>Warning</b> Harmful in Contact with skin	<b>Warning</b> May be harmful in contact with skin
			<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i></p> <p><b>Note:</b> For gases under the UN Model Regulations, replace the number 6 in the bottom corner of the pictogram by 2. For UN Model Regulations pictogram colours: Symbol and figure: black. Background: white.</p>	




ACUTE TOXICITY: INHALATION				
Category 1	Category 2	Category 3	Category 4	Category 5
				<i>No pictogram</i>
<b>Danger</b> Fatal if inhaled	<b>Danger</b> Fatal if inhaled	<b>Danger</b> Toxic if inhaled	<b>Warning</b> Harmful if inhaled	<b>Warning</b> May be harmful if inhaled
			<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>.</p> <p><b>Note:</b> For gases under the UN Model Regulations, replace the number 6 in the bottom corner of the pictogram by 2. For UN Model Regulations pictogram colours: Symbol and figure: black. Background: white.</p>	

SKIN CORROSION/IRRITATION				
Category 1A	Category 1B	Category 1C	Category 2	Category 3
				<i>No pictogram</i>
<b>Danger</b> Causes severe skin burns and eye damage	<b>Danger</b> Causes severe skin burns and eye damage	<b>Danger</b> Causes severe skin burns and eye damage	<b>Warning</b> Causes skin irritation	<b>Warning</b> Causes mild skin irritation
			<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>.</p> <p><b>Note:</b> UN Model Regulations pictogram colours: Symbol: black background: upper half: white; lower half: black with white border; Figure 8: white.</p>	


### SERIOUS EYE DAMAGE/ EYE IRRITATION

Category 1	Category 2A	Category 2B	-	-
 <p style="text-align: center;"><b>Danger</b> Causes serious eye damage</p>	 <p style="text-align: center;"><b>Warning</b> Causes serious eye irritation</p>	<p style="text-align: center;"><i>No pictogram</i></p> <p style="text-align: center;"><b>Warning</b> Causes eye irritation</p>		
<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i></p>				

### RESPIRATORY SENSITIZATION \*




Category 1	-	-	-	-
 <p style="text-align: center;"><b>Danger</b> May cause allergy or asthma symptoms or breathing difficulties if inhaled</p>				
<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i></p>				




\* Further work is included in the work programme of the Sub-Committee of Experts on the GHS.

<b>SKIN SENSITIZATION *</b>				
<b>Category 1</b>	-	-	-	-
 <b>Warning</b> <b>May cause an allergic skin reaction</b>				
<b>Not required under the  UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</b>				




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\* *Further work is included in the work programme of the Sub-Committee of Experts on the GHS.*




<b>GERM CELL MUTAGENICITY</b>				
<b>Category 1A</b>	<b>Category 1B</b>	<b>Category 2</b>	<b>-</b>	<b>-</b>
				
<b>Danger</b>	<b>Danger</b>	<b>Warning</b>		
<b>May cause genetic defects</b> <i>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i>	<b>May cause genetic defects</b> <i>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i>	<b>Suspected of causing genetic defects</b> <i>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i>		
<b>Not required under the</b> <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i>				

<b>CARCINOGENICITY</b>				
<b>Category 1A</b>	<b>Category 1B</b>	<b>Category 2</b>	<b>-</b>	<b>-</b>
				
<b>Danger</b>	<b>Danger</b>	<b>Warning</b>		
<b>May cause cancer</b> <i>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i>	<b>May cause cancer</b> <i>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i>	<b>Suspected of causing cancer</b> <i>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i>		
<b>Not required under the</b> <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i>				

## TOXIC TO REPRODUCTION



Category 1A	Category 1B	Category 2	Additional Category on effects on or via lactation	-
 <p style="text-align: center;"><b>Danger</b></p> <p style="text-align: center;"><b>May damage fertility or the unborn child</b> <i>(state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard )</i></p>	 <p style="text-align: center;"><b>Danger</b></p> <p style="text-align: center;"><b>May damage fertility or the unborn child</b> <i>(state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard )</i></p>	 <p style="text-align: center;"><b>Warning</b></p> <p style="text-align: center;"><b>Suspected of damaging fertility or the unborn child</b> <i>(state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard )</i></p>	<p><i>No pictogram</i></p> <p><i>No signal word</i></p> <p><b>May cause harm to breast-fed children.</b></p>	
<p><b>Not required under the</b> <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i></p>				

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)**



Category 1	Category 2	Category 3	-	-
				
<b>Danger</b>	<b>Warning</b>	<b>Warning</b>		
<p><b>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)</b></p>	<p><b>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)</b></p>	<p>(respiratory tract irritation)  <b>May cause respiratory irritation</b>  <i>or</i>                      (Narcotic effects)  <b>May cause drowsiness and dizziness</b></p>		



**Not required under the  
 UN Recommendations on the Transport of Dangerous Goods, Model Regulations.**

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)**





Category 1	Category 2	-	-	-
 <p><b>Danger</b></p> <p>Causes damage to organs (<i>state all organs affected, if known</i>) through prolonged or repeated exposure (<i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i>)</p>	 <p><b>Warning</b></p> <p>May cause damage to organs (<i>state all organs affected, if known</i>) through prolonged or repeated exposure (<i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i>)</p>			
<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i></p>				

**ASPIRATION HAZARD**

Category 1	Category 2	-	-	-
 <p><b>Danger</b></p> <p>May be fatal if swallowed and enters airways</p>	 <p><b>Warning</b></p> <p>May be harmful if swallowed and enters airways</p>			
<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i></p>				

<b>AQUATIC TOXICITY (ACUTE)</b>				
<b>Category 1</b>	<b>Category 2</b>	<b>Category 3</b>	<b>-</b>	<b>Note</b>
 <p><b>Warning</b></p> <p><b>Very toxic to aquatic life</b></p>	<p><i>No pictogram</i></p> <p><i>No signal word</i></p> <p><b>Toxic to aquatic life</b></p>	<p><i>No pictogram</i></p> <p><i>No signal word</i></p> <p><b>Harmful to aquatic life</b></p>		<p><b>For Category 1, under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, the pictogram is not required if the substance presents any other hazards covered by <i>UN Model Regulations</i>. If no other hazard is presented (i.e. for UN Nos. 3077 and 3082 in Class 9 of the <i>UN Model Regulations</i>), this pictogram is required as a mark in addition to the <i>UN Model Regulations Class 9</i> label.</b></p>
	<p><b>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i></b></p>			



<b>AQUATIC TOXICITY (CHRONIC)</b>				
<b>Category 1</b>	<b>Category 2</b>	<b>Category 3</b>	<b>Category 4</b>	<b>Note</b>
 <p><b>Warning</b></p> <p><b>Very toxic to aquatic life with long lasting effects</b></p>	 <p><i>No signal word</i></p> <p><b>Toxic to aquatic life with long lasting effects</b></p>	<p><i>No pictogram</i></p> <p><i>No signal word</i></p> <p><b>Harmful to aquatic life with long lasting effects</b></p>	<p><i>No pictogram</i></p> <p><i>No signal word</i></p> <p><b>May cause long lasting harmful effects to aquatic life</b></p>	<p><b>For Categories 1 and 2, under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, the pictogram is not required if the substance presents any other hazards covered by <i>UN Model Regulations</i>. If no other hazard is presented (i.e. for UN Nos. 3077 and 3082 in Class 9 of the <i>UN Model Regulations</i>), this pictogram is required as a mark in addition to the <i>UN Model Regulations</i> Class 9 label.</b></p>
		<p><b>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i></b></p>		