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EPA, HAZWOPER, HIPAA, IATA,
IMDG, TDG, MSHA, OSHA, and
Canada OHS Regulations and
Safety Online Training**

Since 2008

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ANNEXES












ANNEX 1

ALLOCATION OF LABEL ELEMENTS

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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.



EXPLOSIVES						
Unstable explosives	Division 1.1	Division 1.2	Division 1.3	Division 1.4	Division 1.5	Division 1.6
					No pictogram 1.5 on orange background	No pictogram 1.6 on orange background
Danger	Danger	Danger	Danger	Warning	Danger	No signal word
Unstable explosive	Explosive; mass explosion hazard	Explosive; severe projection hazard	Explosive; fire, blast or projection hazard	Fire or projection hazard	May mass explode in fire	No hazard statement
No pictogram assigned in the <i>UN Model Regulations</i> (Transport not allowed)						









Notes on the colours of the *UN Recommendations on the Transport of Dangerous Goods, Model Regulations*, pictogram elements:







- (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.
- (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.
- (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 mixtures" and "Organic peroxides").





FLAMMABLE GASES				
Category 1	Category 2	-	-	Note
 Danger Extremely flammable gas	No pictogram Warning Flammable gas			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.
	Not required under the <i>UN Model Regulations</i>			










FLAMMABLE AEROSOLS				
Category 1	Category 2	-	-	Note
 Danger Extremely flammable aerosol	 Warning Flammable aerosol			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.
				



OXIDIZING GASES				
Category 1	-	-	-	Note
 <p>Danger</p> <p>May cause or intensify fire; oxidizer</p>				<p>Pictogram colours:</p> <p>Symbol (flame over circle): black; Background: yellow; Figure "5.1" in bottom corner: black.</p>
				



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





FLAMMABLE LIQUIDS				
Category 1	Category 2	Category 3	Category 4	Note
 <p>Danger</p> <p>Extremely flammable liquid and vapour</p>	 <p>Danger</p> <p>Highly flammable liquid and vapour</p>	 <p>Warning</p> <p>Flammable liquid and vapour</p>	<p><i>No pictogram</i></p> <p>Warning</p> <p>Combustible liquid</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>Danger</p> <p>Flammable solid</p>	 <p>Warning</p> <p>Flammable solid</p>			<p>Colours for pictogram under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>:</p> <p>Symbol (flame): black; Background: white with seven vertical red stripes; Figure "4" in the bottom corner: black.</p>
				







SELF-REACTIVE SUBSTANCES AND MIXTURES				
Type A	Type B	Types C and D	Types E and F	Type G
 <p>Danger Heating may cause an explosion</p>	  <p>Danger Heating may cause a fire or explosion</p>	 <p>Danger Heating may cause a fire</p>	 <p>Warning Heating may cause a fire</p>	<p><i>There are no label elements allocated to this hazard category</i></p>
<p>Same as for explosives (follow same symbol selection process)</p>	 			<p>Not required under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations</p>
<p>Notes: (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 <i>UN Model Regulations</i> for more details).</p> <p>(2) <i>UN Model Regulations</i> pictogram colours:</p> <ul style="list-style-type: none"> - Self-reactive substance pictogram: Symbol (flame): black; Background: white with seven vertical red stripes; Figure “4” in the bottom corner: black. - Explosives pictogram: Symbol (exploding bomb): black; background orange; figure “1” in the bottom corner: black. 				







PYROPHORIC LIQUIDS				
Category 1	-	-	-	Note
 <p>Danger</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 (flame): black;</p> <p>Background: upper half white, lower half red; figure “4” in bottom corner: black.</p>
				










PYROPHORIC SOLIDS				
Category 1	-	-	-	Note
 <p>Danger</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 (flame): black;</p> <p>Background: upper half white, lower half red; figure “4” in bottom corner: black.</p>
				



SELF-HEATING SUBSTANCES AND MIXTURES				
Category 1	Category 2	-	-	Note
 <p>Danger Self-heating; may catch fire</p>	 <p>Warning Self-heating in large quantities; may catch fire</p>			<p>Colours of <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, pictogram:</p> <p>Symbol (flame): black; Background: upper half white, lower half red; figure "4" in bottom corner: black.</p>
				








SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES				
Category 1	Category 2	Category 3	-	Note
 <p>Danger In contact with water releases flammable gases which may ignite spontaneously</p>	 <p>Danger In contact with water releases flammable gases</p>	 <p>Warning In contact with water releases flammable gases</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 stays blue in both cases.</p>
				








OXIDIZING LIQUIDS				
Category 1	Category 2	Category 3	-	Note
 <p>Danger May cause fire or explosion; strong oxidizer</p>	 <p>Danger May intensify fire; oxidizer</p>	 <p>Warning 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 (flame over circle): black; Background: yellow; Figure "5.1" in bottom corner: black.</p>
				








OXIDIZING SOLIDS				
Category 1	Category 2	Category 3	-	Note
 <p>Danger May cause fire or explosion; strong oxidizer</p>	 <p>Danger May intensify fire; oxidizer</p>	 <p>Warning 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 (flame over circle): black; Background: yellow; Figure "5.1" in bottom corner: black.</p>
				








ORGANIC PEROXIDES				
Type A	Type B	Types C and D	Types E and F	Type G
 Danger Heating may cause an explosion	  Danger Heating may cause a fire or explosion	 Danger Heating may cause a fire	 Warning 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>Notes: (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>Warning May be corrosive to metals</p>				<p>Under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i>, pictogram colours:</p> <p>Symbol (corrosion): black; background: upper half: white; lower half: black with white border; Figure “8” in the bottom corner: white.</p>
				




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




ACUTE TOXICITY: SKIN				
Category 1	Category 2	Category 3	Category 4	Category 5
 Danger Fatal in contact with skin	 Danger Fatal in contact with skin	 Danger Toxic in contact with skin	 Warning Harmful in Contact with skin	No pictogram Warning May be harmful in contact with skin
			Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i> . <u>Note:</u> 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 (skull and crossbones): black; Background: white; Figure “6” in bottom corner: black.	




ACUTE TOXICITY: INHALATION				
Category 1	Category 2	Category 3	Category 4	Category 5
 Danger Fatal if inhaled	 Danger Fatal if inhaled	 Danger Toxic if inhaled	 Warning Harmful if inhaled	No pictogram Warning May be harmful if inhaled
			Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i> . <u>Note:</u> 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 (skull and crossbones) and figure: black; Background: white.	




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




SERIOUS EYE DAMAGE/ EYE IRRITATION				
Category 1	Category 2A	Category 2B	-	-
 <p>Danger</p> <p>Causes serious eye damage</p>	 <p>Warning</p> <p>Causes serious eye irritation</p>	<p><i>No pictogram</i></p> <p>Warning</p> <p>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	Category 1A	Category 1B	-	-
				
Danger	Danger	Danger		
May cause allergy or asthma symptoms or breathing difficulties if inhaled	May cause allergy or asthma symptoms or breathing difficulties if inhaled	May cause allergy or asthma symptoms or breathing difficulties if inhaled		
Not required under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations.				



SKIN SENSITIZATION				
Category 1	Category 1A	Category 1B	-	-
				
Warning	Warning	Warning		
May cause an allergic skin reaction	May cause an allergic skin reaction	May cause an allergic skin reaction		
Not required under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations.				



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



CARCINOGENICITY				
Category 1A	Category 1B	Category 2	-	-
				
Danger	Danger	Warning		
May cause cancer <i>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i>	May cause cancer <i>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i>	Suspected of causing cancer <i>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i>		
Not required under the <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>Danger</p> <p>May damage fertility or the unborn child <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>Danger</p> <p>May damage fertility or the unborn child <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>Warning</p> <p>Suspected of damaging fertility or the unborn child <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>May cause harm to breast-fed children.</p>	
<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i></p>				


SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)				
Category 1	Category 2	Category 3	-	-
				
Danger	Warning	Warning		
Causes damage to organs (<i>or state all organs affected, if known</i>) (<i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i>)	May cause damage to organs (<i>or state all organs affected, if known</i>) (<i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i>)	(respiratory tract irritation) May cause respiratory irritation <i>or</i> (Narcotic effects) May cause drowsiness or dizziness		
Not required under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations.				

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)				
Category 1	Category 2	-	-	-
				
Danger	Warning			
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>)	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>)			
Not required under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations.				

ASPIRATION HAZARD				
Category 1	Category 2	-	-	-
 <p>Danger</p> <p>May be fatal if swallowed and enters airways</p>	 <p>Warning</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>				

AQUATIC HAZARD (ACUTE)				
Category 1	Category 2	Category 3	-	Note
 <p>Warning</p> <p>Very toxic to aquatic life</p>	<p><i>No pictogram</i></p> <p><i>No signal word</i></p> <p>Toxic to aquatic life</p>	<p><i>No pictogram</i></p> <p><i>No signal word</i></p> <p>Harmful to aquatic life</p>		<p>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</i> Class 9 label.</p>
	<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i></p>			

AQUATIC HAZARD (LONG-TERM)				
Category 1	Category 2	Category 3	Category 4	Note
 <p>Warning</p> <p>Very toxic to aquatic life with long lasting effects</p>	 <p><i>No signal word</i></p> <p>Toxic to aquatic life with long lasting effects</p>	<p><i>No pictogram</i></p> <p><i>No signal word</i></p> <p>Harmful to aquatic life with long lasting effects</p>	<p><i>No pictogram</i></p> <p><i>No signal word</i></p> <p>May cause long lasting harmful effects to aquatic life</p>	<p>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.</p>
		<p>Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations</i></p>		

HAZARDOUS TO THE OZONE LAYER				
Category 1	-	-	-	-
 Warning Harms public health and the environment by destroying ozone in the upper atmosphere				
Not required under the <i>UN Recommendations on the Transport of Dangerous Goods, Model Regulations.</i>				