

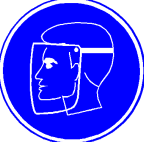





# UN/SCEGHS/6/INF.2/Add.1

Sub-Committee of Experts  
on the Globally Harmonized System of Classification  
and Labelling of Chemical  
(Sixth session, 10-12 December 2003)  
Agenda item 3

## HARMONIZATION OF PRECAUTIONARY STATEMENTS

### Progress of the Correspondence Group on Precautionary Statements regarding physical hazards

#### Explosives

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1.1	Explosive; mass explosion hazard.	 	Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.  Avoid shock, friction and rough handling.	In case of a major fire evacuate the area, and fight the fire remotely because of the explosion risk.
1.2	Explosive; severe projection hazard	 	Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.  Avoid shock, friction and rough handling.	In case of a major fire evacuate the area, and fight the fire remotely because of the explosion risk.
1.3	Explosive; fire, blast or projection hazard.	 	Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.  Avoid shock, friction and rough handling.	In case of a major fire evacuate the area, and fight the fire remotely because of the explosion risk.
1.4	Fire or projection hazard.		Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.  Avoid shock, friction and rough handling.	In case of a major fire evacuate the area, and fight the fire remotely because of the explosion risk.
1.5	May explode in fire.		Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.	
1.6			Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.  Avoid rough handling.	In case of a major fire evacuate the area, and fight the fire remotely because of the explosion risk.

### Flammable gases

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	Extremely flammable gas.		Keep container in a well-ventilated place, away from ignition sources. No smoking.	Do not extinguish a leaking gas fire unless leak can be stopped safely.
2	Flammable gas.		Keep container in a well-ventilated place, away from ignition sources. No smoking.	Do not extinguish a leaking gas fire unless leak can be stopped safely.


### Flammable aerosols

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	Extremely flammable aerosol.		Protect from sunlight and do not expose to temperatures exceeding 50 °C.  Pressurized container: Do not pierce or burn, even after use.  Do not spray on a naked flame or any incandescent material.  Keep away from ignition sources – No smoking.  [Keep out of the reach of children.]	
2	Flammable aerosol.		Protect from sunlight and do not expose to temperatures exceeding 50 °C.  Pressurized container: Do not pierce or burn, even after use.  Do not spray on a naked flame or any incandescent material.  Keep away from ignition sources – No smoking.  [Keep out of the reach of children.]	









### Oxidizing gases

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	May cause or intensify fire; oxidizer.		Keep container in a well-ventilated place, and reduction valves free from grease and oil.	Use extinguishing agent suitable for type of surrounding fire  Stop leak if it can be done without risk





**Gases under pressure**

	<b>Hazard Statement</b>	<b>Optional Pictogram</b>	<b>Precautionary Statements</b>	
			<b>Prevention</b>	<b>Response</b>
<b>Compressed gas</b>	Contains gas under pressure: may explode <b>if</b> heated.		Keep container in a well-ventilated place.	
<b>Liquefied gas</b>	Contains gas under pressure: may explode <b>if</b> heated.		Keep container in a well-ventilated place.	
<b>Refrigerated liquefied gas</b>	Contains refrigerated gas; may cause cryogenic burns or injury		Keep container in a well-ventilated place.	In case of contact, thaw frosted parts with lukewarm water.
<b>Dissolved gas</b>	Contains gas under pressure; may explode if heated.		Keep container in a well-ventilated place.	









**Flammable liquids**

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	Extremely flammable liquid and vapor.	 	Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.  Keep container closed and in a well-ventilated place.	
2	Highly flammable liquid and vapor.	 	Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.  Keep container closed and in a well-ventilated place.	
3	Flammable liquid and vapor.	 	Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.  Keep container closed and in a well-ventilated place.	
4	Combustible liquid.	 	Keep away from flames and hot surfaces.	





**Flammable solids**

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	Flammable solid.	 	Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.	
2	Flammable solid.	 	Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.	




**Self-Reactive Substances**

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
<b>Type A</b>	Heating may cause an explosion.	  	<p>Keep away from ignition sources, e.g. heat, sparks and flames.</p> <p>No smoking.</p> <p>Store separately from other materials.</p> <p>Keep away from (incompatible materials to be indicated by the manufacturer)</p> <p>Store in cool place / shade, at temperature not exceeding ... °C. (to be specified by manufacturer)</p>	<p>In case of fire, use (indicate precise type of fire-fighting equipment).</p> <p>In case of a major fire evacuate the area because of the explosion risk.</p>
<b>Type B</b>	Heating may cause a fire or explosion.	  	<p>Keep away from ignition sources, e.g. heat, sparks and flames.</p> <p>No smoking.</p> <p>Store in cool place / shade, at temperature not exceeding ... °C. (to be specified by manufacturer)</p> <p>Store separately from other materials.</p> <p>Keep away from (incompatible materials to be indicated by the manufacturer)</p> <p>Keep only in original container.</p>	<p>In case of fire, use (indicate precise type of fire-fighting equipment).</p> <p>In case of a major fire evacuate the area, and fight the fire remotely because of the explosion risk.</p>
<b>Type C and D</b>	Heating may cause a fire.	 	<p>Keep away from ignition sources, e.g. heat, sparks and flames.</p> <p>No smoking.</p> <p>Store in cool place / shade, at temperature not exceeding ... °C (to be specified by manufacturer)</p> <p>Store separately from other materials.</p> <p>Keep away from (incompatible materials to be indicated by the manufacturer)</p> <p>Keep only in original container.</p>	<p>In case of fire, use (indicate precise type of fire-fighting equipment).</p>




**Self-Reactive Substances (cont.)**

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
Type E and F	Heating may cause a fire.	  	<p>Keep away from ignition sources, e.g. heat, sparks and flames.</p> <p>No smoking.</p> <p>Store in cool place / shade, at temperature not exceeding ... °C. (to be specified by manufacturer)</p> <p>Store separately from other materials.</p> <p>Keep away from (incompatible materials to be indicated by the manufacturer)</p> <p>Keep only in original container</p>	
Type G		  	<p>Keep away from ignition sources, e.g. heat, sparks and flames.</p> <p>No smoking.</p> <p>Store in cool place / shade. at temperature not exceeding ... °C] (to be specified by manufacturer)</p> <p>Store separately from other materials.</p> <p>Keep away from (incompatible materials to be indicated by the manufacturer)</p>	





**Pyrophoric liquids**

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	Catches fire spontaneously if exposed to air.	    	<p>Do not allow contact with air.</p> <p>Keep contents under (appropriate liquid or inert gas specified by the manufacturer)</p> <p>Keep away from ignition sources, e.g. heat, sparks and flames.</p> <p>No smoking.</p>	







### Pyrophoric solids

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	Catches fire spontaneously if exposed to air.	  	<p>Do not allow contact with air.</p> <p>Keep contents under (appropriate liquid or inert gas specified by the manufacturer)</p> <p>Keep away from ignition sources, e.g. heat, sparks and flames.</p> <p>No smoking.</p>	

### Self-Heating Substances













	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	Self-heating; may catch fire.	 	<p>Store in cool place / shade. at temperature not exceeding ... °C for xx kg (to be specified by manufacturer)</p> <p>Keep bulk masses to less than ...kg for storage temperatures up to .... °C. {to be inserted}</p> <p>Maintain an air gap between stacks of pallets.</p> <p>Store separately from other materials.</p>	
2	Self-heating in large quantities; may catch fire.	 	<p>Store in cool place / shade. at temperature not exceeding ... °C for xx kg (to be specified by manufacturer)</p> <p>Keep bulk masses to less than ...kg for storage temperatures up to .... °C. {to be inserted}</p> <p>Maintain an air gap between stacks of pallets.</p> <p>Store separately from other materials.</p>	

**Substances, which on contact with water, emit flammable gases**













	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	In contact with water releases flammable gases which may ignite spontaneously.	 	<p>Keep from any possible contact with water, because of violent reaction and possible flash fire.</p> <p>Store in a dry place and/or in closed container.</p> <p>Handle under inert gas, protect from moisture.</p>	
2	In contact with water releases flammable gases..	 	<p>Keep from any possible contact with water, because of violent reaction and possible flash fire.</p> <p>Store in a dry place and/or in closed container.</p> <p>Handle under inert gas, protect from moisture.</p>	
3	In contact with water releases flammable gases.	 	<p>Store in a dry place and/or in closed container.</p> <p>Handle under inert gas, protect from moisture.</p>	











**Oxidizing liquids**

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	May cause fire or explosion; strong oxidizer.	   	<p>Do not store together with or unintentionally mix with incompatible materials such as e.g. combustibles, acids and finely powdered water reactive metals.</p> <p>Keep away from heat.</p> <p>Keep from contact with clothing and other combustible materials to avoid fire.</p>	
2	May intensify fire; oxidizer.	   	<p>Do not store together with or unintentionally mix with incompatible materials such as e.g. combustibles, acids and finely powdered water reactive metals.</p> <p>Keep away from heat.</p>	
3	May intensify fire; oxidizer.	   	<p>Do not store together with or unintentionally mix with incompatible materials such as e.g. combustibles, acids and finely powdered water reactive metals.</p> <p>Keep away from heat.</p>	





**Oxidizing solids**

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	May cause fire or explosion; strong oxidizer.	   	<p>Do not store together with or unintentionally mix with incompatible materials such as e.g. combustibles and acids.</p> <p>Keep away from heat.</p> <p>Keep from contact with clothing and other combustible materials to avoid fire.</p>	<p>In case of a major fire and large quantities, evacuate the area and fight the fire remotely because of the explosion risk.</p>
2	May intensify fire; oxidizer.	   	<p>Do not store together with or unintentionally mix with incompatible materials such as e.g. combustibles and acids.</p> <p>Keep away from heat.</p>	
3	May intensify fire; oxidizer.	   	<p>Do not store together with or unintentionally mix with incompatible materials such as e.g. combustibles and acids.</p> <p>Keep away from heat.</p>	

**Organic Peroxides**

	<b>Hazard Statement</b>	<b>Optional Pictogram</b>	<b>Precautionary Statements</b>	
			<b>Prevention</b>	<b>Response</b>
<b>Type A</b>	Heating may cause an explosion.	  	<p>Keep away from ignition sources, e.g. heat, sparks and flames.</p> <p>No smoking.</p> <p>Store separately from other materials.</p> <p>Keep away from (incompatible materials to be indicated by the manufacturer)</p> <p>Store in cool place at temperatures not exceeding {...°C} (to be specified by the manufacturer).</p>	
<b>Type B</b>	Heating may cause a fire or explosion.	  	<p>Keep away from ignition sources, e.g. heat, sparks and flames.</p> <p>No smoking.</p> <p>Store separately from other materials.</p> <p>Keep away from (incompatible materials to be indicated by the manufacturer)</p> <p>Store in cool place at temperatures not exceeding {...°C} (to be specified by the manufacturer).</p> <p>Keep in original container</p>	
<b>Type C and D</b>	Heating may cause a fire.	 	<p>Keep away from ignition sources, e.g. heat, sparks and flames.</p> <p>No smoking.</p> <p>Store separately from other materials.</p> <p>Keep away from (incompatible materials to be indicated by the manufacturer)</p> <p>Store in cool place at temperatures not exceeding {...°C} (to be specified by the manufacturer).</p> <p>Keep in original container</p>	

### Organic Peroxides (cont.)

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
Type E and F	Heating may cause a fire.	  	Keep away from ignition sources, e.g. heat, sparks and flames.  No smoking.  Store separately from other materials.  Keep away from (incompatible materials to be indicated by the manufacturer)  Store in cool place at temperatures not exceeding {...°C} (to be specified by the manufacturer).  Keep in original container	
Type G		  	No open flames, no sparks and no smoking.  Keep away from (incompatible materials to be indicated by the manufacturer)  Store in cool place at temperatures not exceeding {...°C} (to be specified by the manufacturer).	

### Corrosive to metals

	Hazard Statement	Optional Pictogram	Precautionary Statements	
			Prevention	Response
1	Corrosive to metals.		Keep in corrosive resistant containers.	Adsorb spilled substance to prevent metal corrosion.