

**C.4.10 REPRODUCTIVE TOXICITY**  
(Classified in Accordance with Appendix A.7 of this Section)

**Pictogram**  
Health hazard



Hazard category	Signal word	Hazard statement
1A and 1B	Danger	May damage fertility or the unborn child <...> <<...>>
2	Warning	Suspected of damaging fertility or the unborn child <...> <<...>> < > (state specific effect if known) <<... >> (state route of exposure if no other routes of exposure cause the hazard)

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Obtain special instructions before use.</b> <b>Do not handle until all safety precautions have been read and understood.</b> <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.	<b>If exposed or concerned: Get medical advice/attention.</b> Chemical manufacturer, importer, or distributor to select medical advice or attention as appropriate.	<b>Store locked up.</b>	<b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.

**C.4.10 REPRODUCTIVE TOXICITY (CONTINUED)**  
(Classified in Accordance with Appendix A.7 of this Section)  
(EFFECTS ON OR VIA LACTATION)

**Pictogram**  
*No Pictogram*

**Hazard category** **Signal word** **Hazard statement**

*No designated number* *No signal word* *May cause harm to breast-fed children*

(See Table A.7.1 in appendix A.7 of this section)

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Obtain special instructions before use.</b> <b>Do not breathe dusts or mists.</b> <i>- if inhalable particles of dusts or mists may occur during use.</i> <b>Avoid contact during pregnancy and while nursing.</b> <b>Wash ... thoroughly after handling.</b> <i>... Chemical manufacturer, importer, or distributor to specify parts of the body to be washed after handling.</i> <b>Do not eat, drink or smoke when using this product.</b>	<b>If exposed or concerned: Get medical advice/attention.</b> Chemical manufacturer, importer, or distributor to select medical advice or attention as appropriate.		

**C.4.11 SPECIFIC TARGET ORGAN TOXICITY (Single Exposure)**  
(Classified in Accordance with Appendix A.8 of this section)

**Pictogram**  
Health hazard



**Hazard category**      **Signal word**      **Hazard statement**

1      Danger      Causes damage to organs <...> <<...>>

<...> (or state all organs affected if known)

<<...>> (state route of exposure if no other routes of exposure cause the hazard)

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>Do not breathe dust/fume/gas/mist/vapors/spray.</b> Chemical manufacturer, importer, or distributor to specify applicable conditions.</p> <p><b>Wash ...thoroughly after handling.</b> ... Chemical manufacturer, importer, or distributor to specify parts of the body to be washed after handling.</p> <p><b>Do not eat, drink or smoke when using this product.</b></p>	<p><b>If exposed or concerned: Call a poison center/doctor/...</b> ... Chemical manufacturer, importer, or distributor to specify the appropriate source of emergency medical advice.</p> <p><b>Specific treatment (see ... on this label)</b> ... Reference to supplemental first aid instruction. - if immediate measures are required.</p>	<p><b>Store locked up.</b></p>	<p><b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>

**C.4.11 SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) (CONTINUED)**  
(Classified in Accordance with Appendix A.8 of this Section)

**Pictogram**  
Health hazard




**Hazard category      Signal word      Hazard statement**

- 2      Warning      May cause damage to organs <...> <<...>>  
    <...> (or state all organs affected, if known)  
    <<...>> (state route of exposure if no other routes of exposure cause the hazard)

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>Do not breathe dust/fume/gas/mist/vapors/spray.</b>            Chemical manufacturer, importer, or distributor to specify applicable conditions.</p> <p><b>Wash ... thoroughly after handling.</b>            ... Chemical manufacturer, importer, or distributor to specify parts of the body to be washed after handling.</p> <p><b>Do not eat, drink or smoke when using this product.</b></p>	<p><b>If exposed or concerned: Call a poison center/doctor/...</b>            ... Chemical manufacturer, importer, or distributor to specify the appropriate source of emergency medical advice.</p>	<p><b>Store locked up.</b></p>	<p><b>Dispose of contents/container to...</b>            ... in accordance with local/regional/national/international regulations (to be specified).            Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>



**C.4.11 SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) (CONTINUED)**  
(Classified in Accordance with Appendix A.8 of this Section)

Hazard category	Signal word	Hazard statement	Pictogram Exclamation mark
3	Warning	May cause respiratory irritation; or	
		May cause drowsiness or dizziness	

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>Avoid breathing dust/fume/gas/mist/vapors/spray.</b> Chemical manufacturer, importer, or distributor to specify applicable conditions.</p> <p><b>Use only outdoors or in a well-ventilated area.</b></p>	<p><b>If inhaled: Remove person to fresh air and keep comfortable for breathing.</b> <b>Call a poison center/doctor/.../if you feel unwell.</b> ... Chemical manufacturer, importer, or distributor to specify the appropriate source of emergency medical advice.</p>	<p><b>Store in a well-ventilated place. Keep container tightly closed.</b> <i>- if the chemical is volatile and may generate a hazardous atmosphere.</i></p> <p><b>Store locked up.</b></p>	<p><b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>

**C.4.12 SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure)**  
(Classified in Accordance with Appendix A.9 of this Section)

**Pictogram**  
Health hazard



**Hazard statement**

**Signal word**

**Hazard category**

Causes damage to organs <...> through prolonged or repeated exposure <<...>>

Danger

1

<...> (state all organs affected, if known)

<<...>> (state route of exposure if no other routes of exposure cause the hazard)

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>Do not breathe dust/fume/gas/mist/vapors/spray.</b> Chemical manufacturer, importer, or distributor to specify applicable conditions.</p> <p><b>Wash ... thoroughly after handling.</b> ... Chemical manufacturer, importer, or distributor to specify parts of the body to be washed after handling.</p> <p><b>Do not eat, drink or smoke when using this product.</b></p>	<p><b>Get medical advice/attention if you feel unwell.</b> Chemical manufacturer, importer, or distributor to select medical advice or attention as appropriate.</p>		<p><b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>

**Pictogram**  
Health hazard



Hazard category	Signal word	Hazard statement
2	Warning	May cause damage to organs <...> through prolonged or repeated exposure <<...>>  <...> (state all organs affected, if known)  <<...>> (state route of exposure if no other routes of exposure cause the hazard)

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>Do not breathe dust/fume/gas/mist/vapors/spray.</b></p> <p>Chemical manufacturer, importer, or distributor to specify applicable conditions.</p>	<p><b>Get medical advice/attention if you feel unwell.</b></p> <p>Chemical manufacturer, importer, or distributor to select medical advice or attention as appropriate.</p>		<p><b>Dispose of contents/container to...</b></p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <p>Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>

**C.4.13 ASPIRATION HAZARD**  
(Classified in Accordance with Appendix A.10 of this Section)

**Pictogram**  
Health hazard



**Hazard statement**

May be fatal if swallowed and enters airways

**Signal word**

Danger

**Hazard category**

I

Precautionary statements			
Prevention	Response	Storage	Disposal
	<p><b>If swallowed: Immediately call a poison center/doctor/...</b> ... Chemical manufacturer, importer, or distributor to specify the appropriate source of emergency medical advice.</p> <p><b>Do NOT induce vomiting.</b></p>	<p><b>Store locked up.</b></p>	<p><b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>




**C.4.14 EXPLOSIVES**  
(Classified in Accordance with Appendix B.1 of this Section)



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Unstable explosive	Danger	Unstable explosive

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Obtain special instructions before use.</b> <b>Do not subject to grinding/shock/friction/...</b> <i>— if the explosive is mechanically sensitive.</i> ... Chemical manufacturer, importer or distributor to specify applicable rough handling. <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.	<b>In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.</b>	<b>Store in accordance with...</b> ... Chemical manufacturer, importer, or distributor to specify local/regional/national/international regulations as applicable.	<b>Refer to manufacturer, importer, or distributor... for information on disposal, recovery, or recycling. ...</b> Manufacturer, importer, or distributor to specify appropriate source of information, in accordance with local/regional/national/international regulations as applicable.

**C.4.14 EXPLOSIVES (CONTINUED)**  
(Classified in Accordance with Appendix B.1 of this Section)

Hazard category	Signal word	Hazard statement	<div>Pictogram</div> <div>Exploding bomb</div>
Division 1.1	Danger	Explosive; mass explosion hazard	
Division 1.2	Danger	Explosive; severe projection hazard	
Division 1.3	Danger	Explosive; fire, blast or projection	

Precautionary statements	Prevention	Response	Storage	Disposal
	<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>Keep wetted with... <i>for substances and mixtures which are wetted, diluted, dissolved or suspended with a phlegmatizer in order to reduce or suppress their explosive properties (desensitized explosives).</i></p> <p>Keep only in original packaging.</p> <p>Ground and bond container and receiving equipment. <i>- if the explosive is electrostatically sensitive.</i></p> <p>Do not subject to grinding/shock/.../friction. <i>- if the explosive is mechanically sensitive.</i></p> <p>... Chemical manufacturer, importer, or distributor to specify applicable rough handling.</p> <p>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</p> <p>Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment</p>	<p>In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.</p>	<p>Store in accordance with... ... Chemical manufacturer, importer, or distributor to specify local/regional/national/international regulations as applicable.</p>	<p>Refer to manufacturer, importer, or distributor... for information on disposal, recovery, or recycling. ... Manufacturer, importer, or distributor to specify appropriate source of information, in accordance with local/regional/national/international regulations as applicable.</p>

*Note: Unpackaged explosives or explosives repacked in packaging other than the original or similar packaging shall have the label elements assigned to Division 1.1 unless the hazard is shown to correspond to one of the hazard categories in appendix B.1 of this section, in which case the corresponding symbol, signal word and/or the hazard statement shall be assigned.*

**C.4.14 EXPLOSIVES (CONTINUED)**  
(Classified in Accordance with Appendix B.1 of this Section)

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>	<b>Pictogram</b> Exploding bomb <sup>1</sup>
Division 1.4	Warning	Fire or projection hazard	

Precautionary statements <sup>1</sup>	Prevention	Response	Storage	Disposal
<p><b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b></p> <p><b>Keep only in original packaging.</b></p> <p><b>Ground and bond container and receiving equipment.</b> - <i>if the explosive is electrostatically sensitive.</i></p> <p><b>Do not subject to grinding/shock/.../friction.</b> - <i>if the explosive is mechanically sensitive.</i> ... Chemical manufacturer, importer, or distributor to specify applicable rough handling.</p> <p><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.</p>	<p><b>In case of fire: Explosion risk. Evacuate area. Do NOT fight fire when fire reaches explosives.</b> - <i>except for explosives of division 1.4 (compatibility group S) in transport packaging.</i></p> <p><b>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</b> - <i>for explosives of division 1.4 (compatibility group S) in transport packaging.</i></p>	<p><b>Store in accordance with...</b> ... Chemical manufacturer, importer, or distributor to specify local/regional/national/international regulations as applicable..</p>	<p><b>Refer to manufacturer, importer, or distributor... for information on disposal, recovery, or recycling.</b> ... Manufacturer, importer, or distributor to specify appropriate source of information, in accordance with local/regional/national/international regulations as applicable.</p>	

*Note: Unpackaged explosives or explosives repacked in packaging other than the original or similar packaging shall have the label elements assigned to Division 1.1 unless the hazard is shown to correspond to one of the hazard categories in appendix B.1 of this section, in which case the corresponding symbol, signal word and/or the hazard statement shall be assigned.<sup>1</sup>*

<sup>1</sup> Except no pictogram is required for explosives that are 1.4S small arms ammunition and components thereof. Labels for 1.4S small arms ammunition and components shall include appropriate precautionary statements.



**C.4.14 EXPLOSIVES (CONTINUED)**  
(Classified in Accordance with Appendix B.1 of this Section)

**Pictogram**  
No Pictogram

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Division 1.5	Danger	May mass explode in fire

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b></p> <p><b>Keep wetted with...</b>  <i>-for substances and mixtures which are wetted, diluted, dissolved or suspended with a phlegmatizer in order to reduce or suppress their explosive properties (desensitized explosives).</i>            ... Chemical manufacturer, importer, or distributor to specify appropriate material.</p> <p><b>Keep only in original packaging.</b></p> <p><b>Ground and bond container and receiving equipment.</b>  <i>- if the explosive is electrostatically sensitive.</i></p> <p><b>Do not subject to grinding/shock/.../friction.</b>  <i>-if the explosive is mechanically sensitive.</i>            ... Chemical manufacturer, importer, or distributor to specify applicable rough handling.</p> <p><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b>            Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.</p>	<p><b>In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.</b></p>	<p><b>Store in accordance with...</b>            ... Chemical manufacturer, importer, or distributor to specify local/regional/national/international regulations as applicable.</p>	<p><b>Refer to manufacturer, importer, or distributor... for information on disposal, recovery, or recycling ...</b>            Manufacturer, distributor, or importer to specify appropriate source of information, in accordance with local/regional/national/international regulations as applicable.</p>

*Note: Unpackaged explosives or explosives repacked in packaging other than the original or similar packaging shall have the label elements assigned to Division 1.1 unless the hazard is shown to correspond to one of the hazard categories in appendix B.1 of this section, in which case the corresponding symbol, signal word and/or the hazard statement shall be assigned.*



C.4.14 EXPLOSIVES (CONTINUED)  
(Classified in Accordance with Appendix B.1 of this Section)

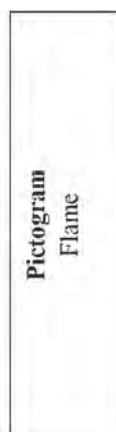


Hazard category	Signal word	Hazard statement
Division 1.6	No signal word	No hazard statement

Precautionary statements			
Prevention	Response	Storage	Disposal
None assigned	None assigned	None assigned	None assigned

*Note: Unpackaged explosives or explosives repacked in packaging other than the original or similar packaging shall have the label elements assigned to Division 1.1 unless the hazard is shown to correspond to one of the hazard categories in appendix B.1 of this section, in which case the corresponding symbol, signal word and/or the hazard statement shall be assigned.*

**C.4.15 FLAMMABLE GASES**  
(Classified in Accordance with Appendix B.2 of this Section)




Hazard category	Signal word	Hazard statement
1A	Danger	Extremely flammable gas
1B	Danger	Flammable gas

Precautionary statements			
Prevention	Response	Storage	Disposal
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  In case of leakage, eliminate all ignition sources.	Store in well-ventilated place.	

*NOTE: For flammable gas Category 1A, pyrophoric gas and Category 1A, chemically unstable gas A and B, see statements below.*


**C.4.15 FLAMMABLE GASES (CONTINUED)**  
 (Classified in Accordance with Appendix B.2 of this Section)

			Pictogram
			Flame
Hazard category	Signal word	Hazard statement	
1A, Pyrophoric gas	Danger	Extremely flammable gas  May ignite spontaneously if exposed to air	

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b>  <b>Do not allow contact with air.</b> <i>– if emphasis of the hazard statement is deemed necessary.</i>  <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....</b> Chemical manufacturer, importer or distributor to specify the appropriate personal protective equipment.	<b>Leaking gas fire: Do not extinguish, unless leak can be stopped safely.</b>  <b>In case of leakage, eliminate all ignition sources.</b>	<b>Store in a well-ventilated place.</b>	

*Note: This table lists only precautionary statements that are assigned due to the flammability and the pyrophoricity of the gas. For the other precautionary statements that are assigned based on chemical instability, see the respective table for chemically unstable gases A and B.*

**C.4.15 FLAMMABLE GASES (CONTINUED)**  
 (Classified in Accordance with Appendix B.2 of this Section)

Hazard category	Signal word	Hazard statement	Pictogram
1A, Chemically unstable gas A	Danger	Extremely flammable gas  May react explosively even in the absence of air.	<div>Flame</div> 
1A, Chemically unstable gas B	Danger	Extremely flammable gas  May react explosively even in the absence of air at elevated pressure and/or temperature.	

Precautionary statements			
Prevention	Response	Storage	Disposal
Do not handle until all safety precautions have been read and understood.  <b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b>	<b>Leaking gas fire: Do not extinguish, unless leak can be stopped safely.</b>  <b>In case of leakage, eliminate all ignition sources.</b>	<b>Store in a well-ventilated place.</b>	

*Note: This table lists only the precautionary statements that are assigned due to the flammability and the chemical instability of the gas. For the other precautionary statements that are assigned based on pyrophoricity, see the respective table for pyrophoric gas.*



C.4.15 FLAMMABLE GASES (CONTINUED)  
(Classified in Accordance with Appendix B.2 of this Section)



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
2	Warning	Flammable gas

Precautionary statements			
Prevention	Response	Storage	Disposal
Keep away from heat, hot surfaces sparks, open flames and other ignition sources. No smoking.	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  In case of leakage, eliminate all ignition sources.	Store in a well-ventilated place.	

**C.4.16 AEROSOLS**  
(Classified in Accordance with Appendix B.3 of this Section)



Hazard category	Signal word	Hazard statement
1	Danger	Extremely flammable aerosol Pressurized container: may burst if heated.
2	Warning	Flammable aerosol Pressurized container: may burst if heated.

Precautionary statements			
Prevention	Response	Storage	Disposal
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.		Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).	

C.4.16 AEROSOLS

(Classified in Accordance with Appendix B.3 of this Section)

Pictogram

No symbol

Hazard category	Signal word	Hazard statement
3	Warning	Pressurized container; may burst if heated.

Precautionary statements			
Prevention	Response	Storage	Disposal
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  Do not pierce or burn, even after use.		Protect from sunlight. Do not expose to temperatures exceeding 122°F (50 °C).	

**C.4.17 OXIDIZING GASES**  
(Classified in Accordance with Appendix B.4 of this Section)

**Pictogram**  
Flame over circle




Hazard category	Signal word	Hazard statement
I	Danger	May cause or intensify fire; oxidizer

Precautionary statements			
Prevention	Response	Storage	Disposal
Keep away from clothing and other combustible materials. Keep valves and fittings free from oil and grease.	In case of fire: Stop leak if safe to do so.	Store in well-ventilated place.	




C.4.18 GASES UNDER PRESSURE  
(Classified in Accordance with Appendix B.5 of this Section)

Hazard category	Signal word	Hazard statement	Pictogram Gas cylinder
Compressed gas	Warning	Contains gas under pressure; may explode if heated	
Liquefied gas	Warning	Contains gas under pressure; may explode if heated	
Dissolved gas	Warning	Contains gas under pressure; may explode if heated	

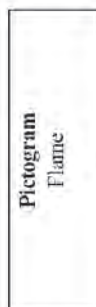
Precautionary statements		
Prevention	Response	Storage
		Protect from sunlight. Store in a well-ventilated place.

Disposal

**C.4.18 GASES UNDER PRESSURE (CONTINUED)**  
(Classified in Accordance with Appendix B.5 of this Section)

<p><b>Pictogram</b> Gas cylinder</p>						
<p><b>Hazard category</b> Refrigerated liquefied gas</p>	<p><b>Signal word</b> Warning</p>	<p><b>Hazard statement</b> Contains refrigerated gas; may cause cryogenic burns or injury</p>				
Precautionary statements						
<p><b>Prevention</b> Wear cold insulating gloves and either face shield or eye protection.</p>		<p><b>Response</b> Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention. Chemical manufacturer, importer, or distributor to select medical advice or attention as appropriate.</p>	<p><b>Storage</b> Store in a well-ventilated place.</p>			<p><b>Disposal</b></p>

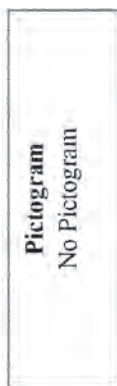
**C.4.19 FLAMMABLE LIQUIDS**  
(Classified in Accordance with Appendix B.6 of this Section)



Hazard category	Signal word	Hazard statement
1	Danger	Extremely flammable liquid and vapor
2	Danger	Highly flammable liquid and vapor
3	Warning	Flammable liquid and vapor

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b> <b>Keep container tightly closed.</b> <i>- if the liquid is volatile and may generate an explosive atmosphere.</i> <b>Ground and bond container and receiving equipment.</b> <i>- if the liquid is volatile and may generate an explosive atmosphere.</i> <b>Use explosion-proof [electrical/ventilating/lighting/...] equipment.</b> <i>- if the liquid is volatile and may generate an explosive atmosphere</i> <i>- text in square brackets may be used to specify specific electrical, ventilating, lighting or other equipment if necessary and as appropriate.</i> <b>Use non-sparking tools.</b> <i>- if the liquid is volatile and may generate an explosive atmosphere and if the minimum ignition energy is very low. (This applies to substances and mixtures where the minimum ignition energy is &lt;0.1 mJ, e.g. carbon disulfide).</i> <b>Take action to prevent static discharge.</b> <i>- if the liquid is volatile and may generate an explosive atmosphere.</i> <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.	<b>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].</b> <i>- text in square brackets to be included where the chemical manufacturer, importer or distributor considers it appropriate for the specific chemical.</i> <b>In case of fire: Use ... to extinguish.</b> <i>- if water increases risk</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.	<b>Store in a well-ventilated place. Keep cool.</b> <i>- for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.</i>	<b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.

**C.4.19 FLAMMABLE LIQUIDS (CONTINUED)**  
(Classified in Accordance with Appendix B.6 of this Section)




<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
4	Warning	Combustible liquid

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b>  <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.	<b>In case of fire: Use ... to extinguish.</b> <i>- If water increases risk</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.	<b>Store in a well-ventilated place.</b> <i>- for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.</i>	<b>Dispose of contents/container to...</b> in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.



**C.4.20 FLAMMABLE SOLIDS**  
(Classified in Accordance with Appendix B.7 of this Section)

Hazard category	Signal word	Hazard statement	Pictogram Flame
1	Danger	Flammable solid	
2	Warning	Flammable solid	

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p><b>Ground and bond container and receiving equipment.</b> - <i>if the solid is electrostatically sensitive.</i></p> <p>Use explosion-proof [electrical/ventilating/ lighting/...] equipment. - <i>if dust clouds can occur.</i> - <i>text in square brackets may be used to specify specific electrical, ventilating, lighting or other equipment if necessary and as appropriate.</i></p> <p><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.</p>	<p><b>In case of fire: Use ... to extinguish</b> - <i>if water increases risk.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.</p>		

**C.4.21 SELF-REACTIVE SUBSTANCES AND MIXTURES**  
(Classified in Accordance with Appendix B.8 of this Section)



**Pictogram**  
Exploding bomb



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Type A	Danger	Heating may cause an explosion


Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b></p> <p><b>Keep only in original packaging.</b></p> <p><b>Keep cool.</b></p> <p><i>– may be omitted if storage temperatures are listed on the label.</i></p> <p><b>Ground and bond container and receiving equipment.</b></p> <p><i>– if electrostatically sensitive and able to generate an explosive atmosphere.</i></p> <p><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b></p> <p>Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.</p>	<p><b>In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.</b></p>	<p><b>Store in a well-ventilated place.</b></p> <p><i>– except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</i></p> <p><b>Store at temperatures not exceeding ...°F (°C).</b></p> <p>... Chemical manufacturer, importer, or distributor to specify temperature using applicable temperature scale.</p> <p><i>– if temperature control is required (see appendix B.2.3 of this section) or if otherwise deemed necessary.</i></p> <p><b>Store separately.</b></p>	<p><b>Dispose of contents/container to...</b></p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <p>Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>

**C.4.21 SELF-REACTIVE SUBSTANCES AND MIXTURES (CONTINUED)**  
(Classified in Accordance with Appendix B.8 of this Section)

Hazard category		Signal word	Hazard statement	Pictogram	
Type B		Danger	Heating may cause a fire or explosion		
Precautionary statements					
Prevention		Response		Storage	Disposal
<p><b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b></p> <p><b>Keep only in original packaging.</b></p> <p><b>Keep cool.</b></p> <p><i>- may be omitted if storage temperatures are listed on the label.</i></p> <p><b>Ground and bond container and receiving equipment.</b></p> <p><i>- if electrostatically sensitive and able to generate an explosive atmosphere.</i></p> <p><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b></p> <p>Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.</p>		<p><b>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use ... to extinguish]</b></p> <p><i>- text in square brackets to be included if water increases risk.</i></p> <p>... Chemical manufacturer, importer, or distributor to specify appropriate media.</p>		<p><b>Store in a well-ventilated place.</b></p> <p><i>- except for temperatures controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</i></p> <p><b>Store at temperatures not exceeding ...°F (°C).</b></p> <p><b>if temperature control is required</b> (see appendix B.2.3 of this section) or if otherwise deemed necessary</p> <p>... Chemical manufacturer, importer, or distributor to specify temperature using applicable temperature scale.</p> <p><b>Store separately.</b></p>	<p><b>Dispose of contents/container to...</b></p> <p>... in accordance with local/regional/national/international regulations (to be specified).</p> <p>Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>



**C.4.21 SELF-REACTIVE SUBSTANCES AND MIXTURES (CONTINUED)**  
(Classified in Accordance with Appendix B.8 of this Section)

Hazard category	Signal word	Hazard statement	Pictogram Flame
Type C	Danger	Heating may cause a fire	
Type D	Danger	Heating may cause a fire	
Type E	Warning	Heating may cause a fire	
Type F	Warning	Heating may cause a fire	

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b></p> <p><b>Keep only in original packaging.</b></p> <p><b>Keep cool.</b> - <i>may be omitted if storage temperatures are listed on the label.</i></p> <p><b>Ground and bond container and receiving equipment.</b> - <i>if electrostatically sensitive and able to generate an explosive atmosphere.</i></p> <p><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.</p>	<p><b>In case of fire: Use ... to extinguish</b> - <i>if water increases risk.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.</p>	<p><b>Store in a well-ventilated place.</b> - <i>except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</i></p> <p><b>Store at temperatures not exceeding ...°F (°C).</b> - <i>if temperature control is required (see appendix B.2.3 of this section) or if otherwise deemed necessary.</i> ... Chemical manufacturer, importer, or distributor to specify temperature using applicable temperature scale. <b>Store separately.</b></p>	<p><b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>

**C.4.22 PYROPHORIC LIQUIDS**  
(Classified in Accordance with Appendix B.9 of this Section)

**Pictogram**  
Flame



**Signal word** Hazard statement

Danger Catches fire spontaneously if exposed to air

**Hazard category**

1

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b></p> <p><b>Do not allow contact with air.</b> - <i>if emphasis of the hazard statement is deemed necessary.</i></p> <p><b>Handle and store contents under inert gas/...</b> ...Manufacturer, importer, or distributor to specify appropriate liquid or gas if "inert gas" is not appropriate.</p> <p><b>Keep container tightly closed.</b></p> <p><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.</p>	<p><b>If on skin: Immerse in cool water or wrap in wet bandages.</b></p> <p><b>In case of fire: Use ... to extinguish</b> - <i>if water increases risk.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.</p>		



**C.4.23 PYROPHORIC SOLIDS**  
(Classified in Accordance with Appendix B.10 of this Section)



Hazard category	Signal word	Hazard statement
1	Danger	Catches fire spontaneously if exposed to air

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b></p> <p><b>Do not allow contact with air.</b> - <i>if emphasis of the hazard statement is deemed necessary.</i></p> <p><b>Handle and store contents under inert gas/....</b> ...Manufacturer, importer, or distributor to specify appropriate liquid or gas if "inert gas" is not appropriate.</p> <p><b>Keep container tightly closed.</b></p> <p><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.</p>	<p><b>If on skin: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages.</b></p> <p><b>In case of fire: Use ... to extinguish</b> - <i>if water increases risk.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.</p>		

**C.4.24 SELF-HEATING SUBSTANCES AND MIXTURES**  
(Classified in Accordance with Appendix B.11 of this Section)

**Pictogram**  
Flame



Hazard category	Signal word	Hazard statement
1	Danger	Self-heating; may catch fire
2	Warning	Self-heating in large quantities; may catch fire

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Keep cool.</b> <i>- may be omitted if storage temperatures are listed on the label.</i>  <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.		Maintain air gap between stacks or pallets.  <b>Protect from sunlight.</b>  Store bulk masses greater than ... kg/...lbs at temperatures not exceeding ...°F (°C). ... Chemical manufacturer, importer, or distributor to specify mass and temperature using applicable scale.  <b>Store separately.</b>	

**C.4.25 SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES**  
(Classified in Accordance with Appendix B.12 of this Section)

**Pictogram**  
Flame



**Hazard category      Signal word      Hazard statement**

- |   |        |  |
|---|--------|--|
| 1 | Danger | In contact with water releases flammable gases, which may ignite spontaneously |
| 2 | Danger | In contact with water releases flammable gas                                   |

**Precautionary statements**

Prevention	Response	Storage	Disposal
<b>Do not allow contact with water.</b> <i>- if emphasis of the hazard statement is deemed necessary.</i>  <b>Handle and store contents under inert gas/... Protect from moisture.</b> <i>- if the substance or mixture reacts readily with moisture in air.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate liquid or gas if "inert gas" is not appropriate.  <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.	<b>If on skin: Brush off loose particles from skin and immerse in cool water.</b>  <b>In case of fire: Use ... to extinguish</b> <i>- if water increases risk.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.	<b>Store in a dry place. Store in a closed container.</b>	<b>Dispose of contents/container to...</b> <i>... in accordance with local/regional/national/international regulations (to be specified).</i> Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.

**C.4.25 SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES (CONTINUED)**  
(Classified in Accordance with Appendix B.12 of this Section)

**Pictogram**  
Flame



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
3	Warning	In contact with water releases flammable gas

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Handle and store contents under inert gas/...</b> <b>Protect from moisture.</b> <i>- if the substance or mixture reacts readily with moisture in air.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate liquid or gas if "inert gas" is not appropriate.	<b>In case of fire: Use ... to extinguish.</b> <i>- if water increases risk.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.	<b>Store in a dry place. Store in a closed container.</b>	<b>Dispose of contents/container to...</b> ...in accordance with local/regional/national/ international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.
<b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.			



**C.4.26 OXIDIZING LIQUIDS**  
(Classified in Accordance with Appendix B.13 of this Section)



Hazard category	Signal word	Hazard statement
I	Danger	May cause fire or explosion; strong oxidizer

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>Keep away from clothing and other combustible materials.</p> <p>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</p> <p>Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.</p> <p>Wear fire resistant or flame retardant clothing.</p>	<p>If on clothing: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.</p> <p>In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.</p> <p>In case of fire: Use ... to extinguish. - <i>if water increases risk.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.</p>	Store separately.	<p>Dispose of contents/container to... ...in accordance with local/regional/national/international regulations (to be specified).</p> <p>Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>



**C.4.26 OXIDIZING LIQUIDS (CONTINUED)**  
(Classified in Accordance with Appendix B.13 of this Section)



Hazard category	Signal word	Hazard statement
2	Danger	May intensify fire; oxidizer
3	Warning	May intensify fire; oxidizer

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>Keep away from clothing and other combustible materials.</p> <p>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.</p>	<p><b>In case of fire: Use ... to extinguish.</b> - <i>if water increases risk.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.</p>		<p><b>Dispose of contents/container to...</b> ...in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>

**C.4.27 OXIDIZING SOLIDS**  
(Classified in Accordance with Appendix B.14 of this Section)

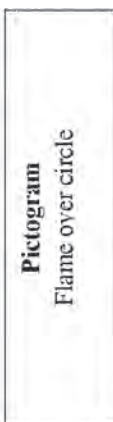
**Pictogram**  
Flame over circle



Hazard category	Signal word	Hazard statement
1	Danger	May cause fire or explosion; strong oxidizer

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>Keep away from clothing and other combustible materials.</p> <p>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... Chemical manufacturer, importer, or distributor to specify appropriate protective equipment.</p> <p>Wear fire resistant or flame retardant clothing.</p>	<p>If on clothing: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.</p> <p>In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.</p> <p>In case of fire: Use ... to extinguish. - if water increases risk. ... Chemical manufacturer, importer, or distributor to specify appropriate media.</p>	Store separately.	<p>Dispose of contents/container to... in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>


**C.4.27 OXIDIZING SOLIDS (CONTINUED)**  
(Classified in Accordance with Appendix B.14 of this Section)



Hazard category	Signal word	Hazard statement
2	Danger	May intensify fire; oxidizer
3	Warning	May intensify fire; oxidizer

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b> <b>Keep away from clothing and other combustible materials.</b> <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.	<b>In case of fire: Use ... to extinguish.</b> <i>- if water increases risk.</i> ... Chemical manufacturer, importer, or distributor to specify appropriate media.		<b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.

**C.4.28 ORGANIC PEROXIDES**  
(Classified in Accordance with Appendix B.15 of this Section)

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>	<b>Pictogram</b> Exploding bomb
Type A	Danger	Heating may cause an explosion	

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b> <b>Keep only in original packaging.</b> <b>Keep cool.</b> <i>— may be omitted if storage temperatures are listed on the label.</i> <b>Ground and bond container and receiving equipment.</b> <i>— if electrostatically sensitive and able to generate an explosive atmosphere.</i> <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.	<b>In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.</b>	<b>Store in a well-ventilated place.</b> <i>— except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</i> <b>Protect from sunlight.</b> <b>Store at temperatures not exceeding ...°F (°C).</b> <i>— if temperature control is required or if otherwise deemed necessary.</i> ... Chemical manufacturer, importer, or distributor to specify temperature using applicable temperature scale. <b>Store separately.</b>	<b>Dispose of contents/container to...</b> <i>... in accordance with local/regional/national/international regulations (to be specified).</i> Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.



**C.4.28 ORGANIC PEROXIDES (CONTINUED)**  
(Classified in Accordance with Appendix B.15 of this Section)

**Pictogram**  
Exploding bomb and flame



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Type B	Danger	Heating may cause a fire or explosion

Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b> <b>Keep only in original packaging.</b> <b>Keep cool.</b> <i>- may be omitted if storage temperatures are listed on the label.</i> <b>Ground and bond container and receiving equipment.</b> <i>- if electrostatically sensitive and able to generate an explosive atmosphere.</i> <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.	<b>In case of fire: Evacuate area.</b> <b>Fight fire remotely due to the risk of explosion. [Use...to extinguish]</b> <i>- text in square brackets to be used if water increases risk.</i> <i>... Chemical manufacturer, importer, distributor to specify appropriate media.</i>	<b>Store in a well-ventilated place.</b> <i>- except for temperatures controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</i> <b>Protect from sunlight.</b> <b>Store at temperatures not exceeding ...°F (°C).</b> <i>- if temperature control is required or if otherwise deemed necessary.</i> Chemical manufacturer, importer, or distributor to specify temperature using applicable temperature scale. <b>Store separately.</b>	<b>Dispose of contents/container to...</b> <i>... in accordance with local/regional/national/international regulations (to be specified).</i> Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.

**C.4.28 ORGANIC PEROXIDES (CONTINUED)**  
(Classified in Accordance with Appendix B.15 of this Section)



Hazard category	Signal word	Hazard statement
Type C	Danger	Heating may cause a fire
Type D	Danger	Heating may cause a fire
Type E	Warning	Heating may cause a fire
Type F	Warning	Heating may cause a fire

Precautionary statements		
Prevention	Response	Storage
<b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b> <b>Keep only in original packaging.</b> <b>Keep cool.</b> <i>- may be omitted if storage temperatures are listed on the label.</i> <b>Ground and bond container and receiving equipment.</b> <i>- if electrostatically sensitive and able to generate an explosive atmosphere.</i> <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.	<b>In case of fire: Use ... to extinguish.</b> <i>- if water increases risk.</i> ... Chemical manufacturer, importer, distributor to specify appropriate media.	<b>Store in a well-ventilated place.</b> <i>- except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.</i> <b>Protect from sunlight.</b> <b>Store at temperatures not exceeding ...°F (°C).</b> <i>- if temperature control is required or if otherwise deemed necessary.</i> Chemical manufacturer, importer, or distributor to specify temperature using applicable temperature scale. <b>Store separately.</b>
		<b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.

## Pictogram Corrosion



Hazard category	Signal word	Hazard statement
1	Warning	May be corrosive to metals

Precautionary statements			
Prevention	Response	Storage	Disposal
Keep only in original packaging.	Absorb spillage to prevent material damage.	Store in corrosion resistant/... container with a resistant inner liner. - may be omitted if "Keep only in original packaging" is on the label ... Chemical manufacturer, importer, or distributor to specify other compatible materials.	



**C.4.30 DESENSITIZED EXPLOSIVES**  
(Classified in Accordance with Appendix B.17 of this Section)



Hazard category	Signal word	Hazard statement
1	Danger	Fire, blast or projection hazard; increased risk of explosion if desensitizing agent is reduced.
2	Danger	Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced.
3	Warning	Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced.

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>Avoid heating under confinement or reduction of the desensitizing agent.</p> <p>Keep wetted with....</p> <p>...Chemical manufacturer, importer or distributor to specify appropriate material.</p> <p>Keep container tightly closed.</p> <p>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</p> <p>Chemical manufacturer, importer or distributor to specify the appropriate personal protective equipment.</p>	<p>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</p>	<p>Store in accordance with....</p> <p>... Chemical manufacturer, importer, or distributor to specify local/regional/national/international regulations as applicable.</p>	<p>Dispose of contents/container to... in accordance with local/regional/national/international regulations (to be specified).</p> <p>Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.</p>



**C.4.30 DESENSITIZED EXPLOSIVES**  
(Classified in Accordance with Appendix B.17 of this Section)

**Pictogram**  
Flame



Hazard category	Signal word	Hazard statement
4	Warning	Fire hazard; increased risk of explosion if desensitizing agent is reduced.

Precautionary Statements			
Prevention	Response	Storage	Disposal
<b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b>  <b>Avoid heating under confinement or reduction of the desensitizing agent.</b>  <b>Keep wetted with...</b> ... Chemical manufacturer, importer, or distributor to specify appropriate material.  <b>Keep container tightly closed.</b>  <b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b> Chemical manufacturer, importer, or distributor to specify the appropriate personal protective equipment.	<b>In case of major fire: Evacuate area. Fight fire remotely due to the risk of explosion.</b>	<b>Store in accordance with...</b> ... Chemical manufacturer, importer, or distributor to specify local/regional/national/international regulations as applicable.	<b>Dispose of contents/container to...</b> ...in accordance with local/regional/national/international regulations (to be specified). Chemical manufacturer, importer, or distributor to specify whether disposal requirements apply to contents, container or both.

## C.4.31 Label elements for OSHA defined hazards

Hazard category	Signal word	Hazard statement	Pictogram <i>No Pictogram</i>
Simple Asphyxiant	Warning	May displace oxygen and cause rapid suffocation	Pictogram <i>No Pictogram</i>
Combustible Dust <sup>2</sup>	Warning	May form combustible dust concentrations in air [if small particles are generated during further processing, handling or by other means.]  or  May form explosive dust-air mixture [if small particles are generated during further processing, handling or by other means.]	Pictogram <i>No Pictogram</i>

<sup>2</sup> The chemical manufacturer or importer shall label chemicals that are shipped in dust form, and present a combustible dust hazard in that form when used downstream, under paragraph (f)(1) of this section; 2) the chemical manufacturer or importer shipping chemicals that are in a form that is not yet a dust must provide a label to customers under paragraph (f)(4) of this section if, under normal conditions of use, the chemicals are processed in a downstream workplace in such a way that they present a combustible dust hazard; and 3) the employer shall follow the workplace labeling requirements under paragraph (f)(6) of this section where combustible dust hazards are present.

## BILLING CODE 4510-26-C

**Appendix D to § 1910.1200—Safety Data Sheets (Mandatory)**

A safety data sheet (SDS) shall include the information specified in Table D.1 under the

section number and heading indicated for sections 1–11 and 16. While each section of the SDS must contain all of the specified information, preparers of safety data sheets are not required to present the information in any particular order within each section. If

no relevant information is found for any given subheading within a section, the SDS shall clearly indicate that no applicable information is available. Sections 12–15 may be included in the SDS, but are not mandatory.

TABLE D.1—MINIMUM INFORMATION FOR AN SDS

Heading	Subheading
1. Identification .....	(a) Product identifier used on the label; (b) Other means of identification; (c) Recommended use of the chemical and restrictions on use; (d) Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party; (e) Emergency phone number.
2. Hazard(s) identification .....	(a) Classification of the chemical in accordance with paragraph (d) of § 1910.1200, including any hazards associated with a change in the chemical's physical form under normal conditions of use; (b) Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of § 1910.1200. (Hazard symbols may be provided as graphical reproductions in black and white or the name of the symbol, e.g., flame, skull and crossbones); (c) Hazards identified under normal conditions of use that result from a chemical reaction (changing the chemical structure of the original substance or mixture); (d) Describe any hazards not otherwise classified that have been identified during the classification process; (e) Where an ingredient with unknown acute toxicity is used in a mixture at a concentration $\geq 1\%$ and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required.
3. Composition/information on ingredients.	Except as provided for in paragraph (i) of § 1910.1200 on trade secrets: <i>For Substances</i> (a) Chemical name; (b) Common name and synonyms; (c) CAS number and other unique identifiers; (d) Impurities and stabilizing additives (constituents) which are themselves classified and which contribute to the classification of the substance. <i>For Mixtures</i> In addition to the information required for substances: (a) The chemical name, CAS number or other unique identifier, and concentration (exact percentage) or concentration ranges of all ingredients which are classified as health hazards in accordance with paragraph (d) of § 1910.1200 and (1) are present above their cut-off/concentration limits; or (2) present a health risk below the cut-off/concentration limits. (b) The concentration (exact percentage) shall be specified unless a trade secret claim is made in accordance with paragraph (i) of § 1910.1200, when there is batch-to-batch variability in the production of a mixture, or for a group of substantially similar mixtures (See A.0.5.1.2) with similar chemical composition. In these cases, concentration ranges may be used. <i>For All Chemicals Where a Trade Secret is Claimed</i> Where a trade secret is claimed in accordance with paragraph (i) of § 1910.1200, a statement that the specific chemical identity, exact percentage (concentration), or concentration range of composition has been withheld as a trade secret is required. When the concentration or concentration range is withheld as a trade secret, the chemical composition must be provided in accordance with the prescribed concentration ranges in § 1910.1200(i)(1)(iv).
4. First-aid measures .....	(a) Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion; (b) Most important symptoms/effects, acute and delayed. (c) Indication of immediate medical attention and special treatment needed, if necessary.
5. Fire-fighting measures .....	(a) Suitable (and unsuitable) extinguishing media. (b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products). (c) Special protective equipment and precautions for fire-fighters.
6. Accidental release measures .....	(a) Personal precautions, protective equipment, and emergency procedures. (b) Methods and materials for containment and cleaning up.
7. Handling and storage .....	(a) Precautions for safe handling. (b) Conditions for safe storage, including any incompatibilities.
8. Exposure controls/personal protection.	(a) For all ingredients or constituents listed in Section 3, the OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit or range used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available. (b) Appropriate engineering controls. (c) Individual protection measures, such as personal protective equipment.
9. Physical and chemical properties	(a) Physical state. (b) Color. (c) Odor. (d) Melting point/freezing point. (e) Boiling point (or initial boiling point or boiling range). (f) Flammability.

TABLE D.1—MINIMUM INFORMATION FOR AN SDS—Continued

Heading	Subheading
	(g) Lower and upper explosion limit/flammability limit. (h) Flash point. (i) Auto-ignition temperature. (j) Decomposition temperature. (k) pH. (l) Kinematic viscosity. (m) Solubility. (n) Partition coefficient n-octanol/water (log value). (o) Vapor pressure. (p) Density and/or relative density. (q) Relative vapor density. (r) Particle characteristics.
10. Stability and reactivity .....	(a) Reactivity; (b) Chemical stability; (c) Possibility of hazardous reactions, including those associated with foreseeable emergencies; (d) Conditions to avoid ( <i>e.g.</i> , static discharge, shock, or vibration); (e) Incompatible materials; (f) Hazardous decomposition products.
11. Toxicological information .....	Description of the various toxicological (health) effects and the available data used to identify those effects, including: (a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact); (b) Symptoms related to the physical, chemical and toxicological characteristics; (c) Delayed and immediate effects and also chronic effects from short- and long-term exposure; (d) Numerical measures of toxicity (such as acute toxicity estimates); (e) Interactive effects; information on interactions should be included if relevant and readily available; (f) Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA. (g) When specific chemical data or information is not available, the preparer must indicate if alternative information is used and the method used to derive the information ( <i>e.g.</i> , where the preparer is using information from a class of chemicals rather than the exact chemical in question and using SAR to derive the toxicological information).
12. Ecological information (Non-mandatory).	(a) Ecotoxicity (aquatic and terrestrial, where available); (b) Persistence and degradability; (c) Bioaccumulative potential; (d) Mobility in soil; (e) Other adverse effects (such as hazardous to the ozone layer).
13. Disposal considerations (Non-mandatory).	Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.
14. Transport information (Non-mandatory).	(a) UN number; (b) UN proper shipping name; (c) Transport hazard class(es); (d) Packing group, if applicable; (e) Environmental hazards ( <i>e.g.</i> , Marine pollutant (Yes/No)); (f) Transport in bulk according to IMO instruments; (g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.
15. Regulatory information (Non-mandatory).	Safety, health and environmental regulations specific for the product in question.
16. Other information, including date of preparation or last revision.	The date of preparation of the SDS or the last change to it.

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