

ANNEX 3

PRECAUTIONARY STATEMENTS AND PRECAUTIONARY PICTOGRAMS

Annex 3

PRECAUTIONARY STATEMENTS AND PRECAUTIONARY PICTOGRAMS

A3.1 Introduction

A3.1.1 This annex provides guidance on the use of precautionary statements consistent with the GHS, including advice on the selection of appropriate statements for each GHS hazard class and category. Precautionary statements should appear on GHS-consistent labels along with the GHS-harmonized hazard communication elements (pictograms, signal words and hazard statements). Additional supplemental information, such as directions for use, may also be provided at the discretion of the manufacturer/supplier and/or competent authority (see Chapter 1.2 and Chapter 1.4, sub-section 1.4.6.3).

A3.1.2 A **Precautionary statement** is a phrase (and/or pictogram) which describes recommended measures that should be taken to minimize or prevent adverse effects resulting from exposures to a hazardous product, or improper storage or handling of a hazardous product (para 1.4.10.5.2(c)).

A3.1.3 Existing precautionary statements have been used to the maximum extent as the basis for the development of this annex. These existing systems have included the IPCS International Chemical Safety Card (ICSC) Compilers Guide, the American National Standards (ANSI Z129.1), the EU classification and labelling directives, the Emergency Response Guidebook (ERG 2004), and U.S. Environmental Protection Agency Pesticide Label Review Manual.

A3.1.4 The annex includes four types of precautionary statements covering: **prevention, response** in cases of accidental spillage or exposure, **storage** and **disposal**. The development of the set of precautionary statements has been linked as far as possible to each GHS hazard statement and type of hazard.

A3.1.5 The goal of this annex is to promote a more consistent use of precautionary statements as shown in the attached matrix. By linking these statements to the hazard statements of the GHS, an improved understanding about appropriate precautionary behaviour is also made possible. Use of the matrix given in the annex enables the key concepts and approaches to be emphasized in training and education activities.

A3.1.6 The guidance for assigning the phrases in the annex has been developed to provide the essential minimum phrases linking precautionary statements with relevant GHS hazard classification criteria and type of hazard. As much redundancy as possible has been removed in the wording of existing phrases in order to simplify them as much as possible.

A3.1.7 This annex should be seen as a living document and therefore subject to further refinement and development over time. The basic concepts of the matrix and the philosophy given below will remain.

A3.2 Scope of application

A3.2.1 Hazard communication is the key means of enabling appropriate precautionary behaviour in users/consumers when handling hazardous substances and mixtures. Recognition and definition of the hazards are the first steps in ensuring safe use, storage and disposal of chemicals. Safety actions are necessarily linked to the type of hazard which exists, e.g., flammable liquids should be stored away from ignition sources. By making this link as explicit as possible, the introduction of precautionary statements into the GHS will reinforce safe handling procedures. Clear plain language is necessary to convey instructions and enable their translation into other languages.

A3.2.2 The starting point for assigning precautionary statements is the hazard classification of the chemical product. The system of classifying hazards in the GHS is based on the intrinsic properties of the chemicals involved (see 1.3.2.2.1). In some systems, however, labelling may not be required for chronic

hazards on consumer product labels, if information shows that the respective risks can be excluded under conditions of normal handling, normal use or foreseeable misuse (see Annex 5). If certain hazard statements are not required then the corresponding precautionary statements are also not necessary (see A5.1.1).

A3.2.3 The precautionary statements included in the following matrix cover general emergency response and first-aid. For some specific chemicals, supplementary first aid, treatment measures or specific antidotes or cleansing materials may be required. Poisons Centres and/or medical practitioners or specialist advice should be sought in such situations and included on labels.

A3.3 Allocation of precautionary statements

A3.3.1 This annex sets out a matrix which guides the selection of appropriate precautionary statements. It includes elements for all categories of precautionary action. All specific elements relating to particular hazard classes should be used. General elements not linked in particular to a certain hazard class or category should also be used.

A3.3.2 To provide flexibility in the application of precautionary phrases, a combination of statements is encouraged to save label space and improve the readability of phrases. Combination of phrases can also be useful for different types of hazard where the precautionary behaviour is similar, e.g. **“Keep away from heat, sparks and open flame and store in a cool well ventilated place”**.

A3.4 General precautionary measures

A3.4.1 General precautionary measures should be adopted for all substances and mixtures which are classified as hazardous to human health or the environment. To this end, the needs of and the information sources available to three groups of users or applicators should be taken into account: the general public, the commercial user and the industrial worker.

A3.4.2 The presumed observation of precautionary label information, specific safety guidelines, and the safety data sheet for each product before use are part of the labelling requirements and occupational health and safety procedures.

A3.4.3 In order to correctly implement precautionary measures concerning prevention, response, storage and disposal, it is also necessary to have information on the composition of products at hand, so that information shown on the container, label and safety data sheet can be taken into account when asking for further specialist advice.

A3.4.4 The following general precautionary statements on the GHS label are appropriate under the given conditions:

General public	GHS Label, Supplemental Label Information	Keep out of reach of children. Read label before use. If medical advice is needed: Have product container or label at hand.
Industrial worker	GHS Label, Supplemental Label Information, Safety Data Sheet, Workplace Instructions	<i>none of the above</i>

A3.5 Structure of the precautionary statements matrix

A3.5.1 Clear plain language is essential to convey information on precautionary behaviour. However, it is not necessary to insist on identical sets of words in all situations.

A3.5.2 The tables making up the matrix show the **core part of the precautionary statements in bold print**. Derogations from the recommended labelling statements are at the discretion of competent authorities. In circumstances where flexibility and variation are appropriate, this is denoted by use of a backslash or diagonal mark [/], the insert *such as* or the use of *italics*. Anything in italics that starts with “- *if*” is intended to be an explanatory note for the application of the Precautionary Statements and is not intended to appear on the label.

A3.5.3 The inclusion of a backslash or diagonal mark indicates that a choice needs to be made between the words they separate, e.g. “... **in accordance with local/regional/national/international regulation**” could read “... **in accordance with** <regulations to comply with>.”. In these cases, the manufacturer or supplier can choose or competent authorities may prescribe the most appropriate phrase.

A3.5.4 Where conditions given in *italics* are combined with “*such as*” they denote the situations which should be specifically mentioned, e.g. “**Keep away from ignition sources such as heat/sparks/open flame**” could read “**Keep away from heat, sparks, and open flame**”. Other ignition sources may be mentioned. In such cases, care should be used and consideration given to the form and type of the substance or mixture. Appropriate guidance should be used which is relevant to the conditions highlighted, e.g. physico-chemical properties, type of formulation, or specific applications and which may give rise to the particular hazard, e.g. flammability.

A3.5.5 During the development of the matrix, some assumptions have been made in order to rationalize the application of the relevant precautionary statement.

A3.5.6 In the majority of cases, the recommended precautionary statements are independent, e.g. the phrases for explosive hazard do not modify those related to certain health hazards and products that are classified for both hazard classes should bear appropriate precautionary statements for both.

A3.5.7 Where a substance or mixture is classified for a number of health hazards, generally the most stringent set of precautionary statements should be selected. This applies mainly for the preventive measures. With respect to phrases concerning “Response”, rapid action may be crucial. For example, if a chemical is carcinogenic and acutely toxic then the first aid measures for acute toxicity will take precedence over those for longer term effects. In addition, medical attention to delayed health effects may be required in cases of incidental exposure, even if not associated with immediate symptoms of intoxication.

A3.5.8 To protect people with different reading abilities, it might be useful to include both precautionary pictograms and precautionary statements in order to convey information in more than one way (see 1.4.4.1 (a)). It should be noted, however, that the protective effect of pictograms is limited and the examples in Annex 3 do not cover all precautionary aspects to be addressed. While pictograms can be useful, they can be misinterpreted and are not a substitute for training.

A3.6 Matrix of precautionary statements by hazard Class/Category

**EXPLOSIVES
(CHAPTER 2.1)**

<p>Symbol Exploding bomb</p>



Hazard category	Signal word	Hazard Statement
Unstable Explosive	Danger	Unstable Explosive

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Use personal protective equipment as required.</p>	<p>DO NOT fight fire when fire reaches explosives.</p> <p>Explosion risk in case of fire.</p> <p>Evacuate area.</p>	<p>Store ... (in accordance with local/regional/national/international regulation).</p>	<p>Dispose of contents/container to ... (in accordance with local/regional/national/international regulation).</p>

**EXPLOSIVES
(CHAPTER 2.1)**

<p>Symbol Exploding bomb</p>



Hazard category	Signal word	Hazard statement
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 hazard

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p> <p>Do not subject to rough handling such as grinding/shock/friction</p> <p>Wear face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Keep wetted with... appropriate material specified by the manufacturer/supplier or the competent authority</p> <p>- <i>if drying out increases explosion hazard, except as needed for manufacturing or operating processes.</i></p> <p><i>Example: nitrocellulose</i></p> <p>Ground/bond container and receiving equipment</p> <p>- <i>if the explosive is electrostatically sensitive.</i></p>	<p>DO NOT fight fire when fire reaches explosives.</p> <p>In case of fire, evacuate area.</p> <p>Explosion risk in case of fire.</p>	<p>Store ... (in accordance with local/regional/national/international regulation).</p>	<p>Dispose of contents/container to (in accordance with local/regional/national/international regulation).</p>

**EXPLOSIVES
(CHAPTER 2.1)**

<p>Symbol Exploding bomb</p>



Hazard category	Signal word	Hazard statement
Division 1.4	Warning	Fire or projection hazard

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p> <p>Do not subject to rough handling such as grinding/shock/friction.</p> <p>Wear face protection <i>as specified by the manufacturer/supplier or competent authority.</i></p> <p>Ground/bond container and receiving equipment <i>- if the explosive is electrostatically sensitive.</i></p>	<p>EXPLOSIVES (except as noted below)</p> <p>DO NOT fight fire when fire reaches explosives.</p> <p>Explosion risk in case of fire.</p> <p>In case of fire, evacuate area.</p> <p>1.4S AMMUNITION AND COMPONENTS THEREOF</p> <p>DO NOT fight fire when fire reaches explosives.</p> <p>In case of fire, evacuate area.</p> <p>Fight fire with normal precautions from a reasonable distance.</p> <p><i>- If explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF.</i></p>	<p>Store ... (in accordance with local/regional/national/international regulation).</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**EXPLOSIVES
(CHAPTER 2.1)**

<p>Symbol <i>No symbol</i></p>

Hazard category	Signal word	Hazard statement
Division 1.5	Danger	May mass explode in fire

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p> <p>Do not subject to rough handling such as grinding/shock/friction.</p> <p>Wear face protection <i>as specified by the manufacturer/supplier or competent authority.</i></p> <p>Keep wetted with... ... appropriate material specified by the manufacturer/supplier or the competent authority</p> <p>- <i>if drying out increases explosion hazard, except as needed for manufacturing or operating processes.</i></p> <p><i>Example: nitrocellulose</i></p> <p>Ground/bond container and receiving equipment</p> <p>- <i>if the explosive is electrostatically sensitive.</i></p>	<p>DO NOT fight fire when fire reaches explosives.</p> <p>Explosion risk in case of fire.</p> <p>In case of fire, evacuate area.</p>	<p>Store ... (in accordance with local/regional/national/international regulation).</p>	<p>Dispose of contents/container to (in accordance with local/regional/national/international regulation).</p>

**FLAMMABLE GASES
(CHAPTER 2.2)**

Symbol Flame



Hazard category	Signal word	Hazard statement
1	Danger	Extremely flammable gas

Precautionary statements			
Prevention	Response	Storage	Disposal
Keep away from <i>ignition sources such as heat/sparks/open flames</i> -No smoking.	Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.	Store in well-ventilated place.	

**FLAMMABLE GASES
(CHAPTER 2.2)**

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
2	Warning	Flammable gas

Precautionary statements			
Prevention	Response	Storage	Disposal
Keep away from <i>ignition sources such as heat/sparks/open flames</i>-No smoking.	Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.	Store in well-ventilated place.	

**FLAMMABLE AEROSOLS
(CHAPTER 2.3)**

Symbol Flame



Hazard category	Signal word	Hazard statement
1	Danger	Extremely flammable aerosol
2	Warning	Flammable aerosol

Precautionary statements			
Prevention	Response	Storage	Disposal
Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or any white-hot material. Keep away from ignition sources such as heat/sparks/open flames-No smoking.		Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.	

**OXIDIZING GASES
(CHAPTER 2.4)**

Symbol Flame over circle



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

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

**GASES UNDER PRESSURE
(CHAPTER 2.5)**

Symbol Gas cylinder



Hazard category	Signal word	Hazard statement
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	Disposal
		Protect from sunlight and store in well-ventilated place.	

**GASES UNDER PRESSURE
(CHAPTER 2.5)**

Symbol Gas cylinder



Hazard category	Signal word	Hazard statement
Refrigerated liquefied gas	Warning	Contains refrigerated gas; may cause cryogenic burns or injury

Precautionary statements			
Prevention	Response	Storage	Disposal
Wear cold insulating gloves/face shield/eye protection.	Thaw frosted parts with lukewarm water. Do not rub affected area. Seek immediate medical attention/advice.	Store in well-ventilated place.	

**FLAMMABLE LIQUIDS
(CHAPTER 2.6)**

<p align="center">Symbol Flame</p>



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

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Keep container tightly closed.</p> <p>Keep away from ignition sources such as heat/sparks/open flame– No smoking.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Ground/Bond container and receiving equipment</p> <ul style="list-style-type: none"> - <i>if electrostatically sensitive material is for reloading.</i> - <i>if product is as volatile as to generate hazardous atmosphere:</i> <p>Use explosion-proof electrical/ventilating/lighting/.../equipment. ... other specified by the manufacturer/supplier or the competent authority.</p> <p>Take precautionary measures against static discharge.</p> <p>Use only non-sparking tools.</p>	<p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority</p> <p>- <i>if water increases risk.</i></p> <p>IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.</p>	<p>Store in cool/well-ventilated place.</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**FLAMMABLE LIQUIDS
(CHAPTER 2.6)**

<p>Symbol <i>No symbol</i></p>

Hazard category	Signal word	Hazard statement
4	Warning	Combustible liquid

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Keep away from flames and hot surfaces.</p>	<p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority</p> <p>- <i>if water increases risk.</i></p>	<p>Store in cool/well-ventilated place.</p>	<p>Dispose of contents/container to... (in accordance with local/regional/national/international regulation).</p>

**FLAMMABLE SOLIDS
(CHAPTER 2.7)**

<p>Symbol Flame</p>



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

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p> <p>Use explosion-proof electrical/ventilating/lighting/... equipment ... other specified by the manufacturer/supplier or the competent authority. - <i>if dust clouds can occur.</i></p> <p>Ground/Bond container and receiving equipment - <i>if electrostatically sensitive material is for reloading.</i></p>	<p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority - <i>if water increases risk.</i></p>		

**SELF-REACTIVE SUBSTANCES AND MIXTURES
(CHAPTER 2.8)**

<p>Symbol Exploding bomb</p>



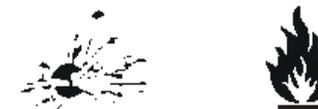
Hazard category	Signal word	Hazard statement
Type A	Danger	Heating may cause an explosion

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p> <p>Keep away fromincompatible materials specified by the manufacturer/supplier or the competent authority.</p> <p>Keep only in original container.</p>	<p>In case of fire: Evacuate area and fight fire remotely due to the risk of explosion.</p> <p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority - <i>if water increases risk.</i></p>	<p>Store in cool/well-ventilated place.</p> <p>Store at temperatures not exceeding ...°C/...°F. ... specified by the manufacturer/supplier or the competent authority</p> <p>Store away from other materials.</p>	<p>Dispose of contents/container to... (in accordance with local/regional/national/international regulation).</p>

**SELF-REACTIVE SUBSTANCES AND MIXTURES
(CHAPTER 2.8)**

Symbol Exploding bomb and flame

Hazard category	Signal word	Hazard statement
Type B	Danger	Heating may cause a fire or explosion



Precautionary statements			
Prevention	Response	Storage	Disposal
Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Keep away from incompatible materials specified by the manufacturer/supplier or the competent authority. Keep only in original container.	In case of fire: Evacuate area and fight fire remotely due to the risk of explosion. In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority - <i>if water increases risk.</i>	Store in cool/well-ventilated place. Store at temperatures not exceeding ...°C/...°F. ... specified by the manufacturer/supplier or the competent authority. Store away from other materials.	Dispose of contents/container to... (in accordance with local/regional/national/international regulation).

**SELF-REACTIVE SUBSTANCES AND MIXTURES
(CHAPTER 2.8)**

Symbol Flame



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	Disposal
<p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p> <p>Keep away from incompatible materials specified by the manufacturer/supplier or the competent authority.</p> <p>Keep only in original container.</p>	<p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority</p> <p>- <i>if water increases risk.</i></p>	<p>Store in cool/well-ventilated place.</p> <p>Store at temperatures not exceeding ...°C/...°F. ... specified by the manufacturer/supplier or the competent authority.</p> <p>Store away from other materials.</p>	<p>Dispose of contents/container to... (in accordance with local/regional/national/international regulation).</p>

**PYROPHORIC LIQUIDS
(CHAPTER 2.9)**

Symbol Flame



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

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Do not allow contact with air.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p>	<p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority - <i>if water increases risk.</i></p> <p>If on skin immerse in cool water/wrap with wet bandages.</p>	<p>Store contents under appropriate liquid or inert gas specified by the manufacturer/supplier or the competent authority.</p>	

**PYROPHORIC SOLIDS
(CHAPTER 2.10)**

Symbol Flame



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

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Do not allow contact with air.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p>	<p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority. - <i>if water increases risk</i></p> <p>Brush off loose particles from skin and immerse in cool water/wrap in wet bandages.</p>	<p>Store contents under appropriate liquid or inert gas specified by the manufacturer/supplier or the competent authority.</p>	

**SELF-HEATING SUBSTANCES AND MIXTURES
(CHAPTER 2.11)**

<p align="center">Symbol Flame</p>



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
<p>Keep cool and protect from sunlight.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p>		<p>Store away from other materials.</p> <p>Store bulk masses greater than ... kg/...lbs at temperatures not exceeding ...°C/...°F. ... specified by the manufacturer/supplier or the competent authority.</p> <p>Maintain air gap between stacks/pallets.</p>	

**SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES
(CHAPTER 2.12)**

<p style="text-align: center;">Symbol Flame</p>
--



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
<p>Keep from any possible contact with water, because of violent reaction and possible flash fire.</p> <p>Handle under inert gas, protect from moisture.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p>	<p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority <i>- if water increases risk.</i></p> <p>Brush off loose particles from skin and immerse in cool water/wrap in wet bandages</p>	<p>Store in a dry place and/or in closed container.</p>	<p>Dispose of contents/container to... (in accordance with local/regional/national/international regulation).</p>

**SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES
(CHAPTER 2.12)**

<p>Symbol Flame</p>

Hazard category	Signal word	Hazard statement
3	Warning	In contact with water releases flammable gas



Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Handle under inert gas, protect from moisture.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p>	<p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority</p> <p>- <i>if water increases risk.</i></p>	<p>Store in a dry place and/or in closed container.</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**OXIDIZING LIQUIDS
(CHAPTER 2.13)**

<p>Symbol Flame over circle</p>
--



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.</p> <p>Keep away from clothing and other combustible materials.</p> <p>Wear fire/flammable resistant/retardant clothing.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Take any precaution to avoid mixing with combustibles/... ... other incompatible materials specified by the manufacturer/supplier or the competent authority.</p>	<p>In case of major fire and large quantities:</p> <p>Evacuate area and fight fire remotely due to the risk of explosion.</p> <p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority - <i>if water increases risk.</i></p> <p>IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.</p>	<p>Store away from combustibles/... ... other incompatible materials specified by the manufacturer/supplier or the competent authority.</p>	<p>Dispose of contents/container to... (in accordance with local/regional/national/international regulation).</p>

**OXIDIZING LIQUIDS
(CHAPTER 2.13)**

<p>Symbol Flame over circle</p>
--



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.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Take any precaution to avoid mixing with combustibles/... ... other incompatible materials specified by the manufacturer/supplier or the competent authority.</p>	<p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority</p> <p>- <i>if water increases risk.</i></p>	<p>Store away from combustibles/... ... other incompatible materials specified by the manufacturer/supplier or the competent authority.</p>	<p>Dispose of contents/container to... (in accordance with local/regional/national/international regulation).</p>

**OXIDIZING SOLIDS
(CHAPTER 2.14)**

<p>Symbol Flame over circle</p>
--



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.</p> <p>Keep away from clothing and other combustible materials.</p> <p>Wear fire/flare resistant/retardant clothing.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Take any precaution to avoid mixing with combustibles/... ... other incompatible materials specified by the manufacturer/supplier or the competent authority.</p>	<p>In case of major fire and large quantities: evacuate area and fight fire remotely due to the risk of explosion.</p> <p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority - <i>if water increases risk.</i></p> <p>IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.</p>	<p>Store away from combustibles/... ... other incompatible materials specified by the manufacturer/supplier or the competent authority.</p>	<p>Dispose of contents/container to... (in accordance with local/regional/national/international regulation).</p>

**OXIDIZING SOLIDS
(CHAPTER 2.14)**

<p>Symbol Flame over circle</p>
--



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.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Take any precaution to avoid mixing with combustibles/... ... other incompatible materials specified by the manufacturer/supplier or the competent authority.</p>	<p>In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority</p> <p>- <i>if water increases risk.</i></p>	<p>Store away from combustibles/... ... other incompatible materials specified by the manufacturer/supplier or the competent authority.</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**ORGANIC PEROXIDES
(CHAPTER 2.15)**

Symbol Exploding bomb



Hazard category	Signal word	Hazard statement
Type A	Danger	Heating may cause an explosion

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p> <p>Keep away from... ... incompatible materials specified by the manufacturer/supplier or the competent authority.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Keep only in original container.</p>		<p>Store away from other materials.</p> <p>Store in cool place at temperatures not exceeding ...°C/...°F. ... specified by the manufacturer/supplier or the competent authority.</p> <p>Protect from sunlight.</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**ORGANIC PEROXIDES
(CHAPTER 2.15)**

<p>Symbol Exploding bomb and flame</p>

Hazard category

Type B

Signal word

Danger

Hazard statement

Heating may cause a fire or explosion



Precautionary statements

Prevention	Response	Storage	Disposal
<p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p> <p>Keep away from incompatible materials specified by the manufacturer/supplier or the competent authority.</p> <p>Keep only in original container.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p>		<p>Store away from other materials.</p> <p>Store in cool place at temperatures not exceeding ...°C/...°F. ... specified by the manufacturer/supplier or the competent authority.</p> <p>Protect from sunlight.</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**ORGANIC PEROXIDES
(CHAPTER 2.15)**

<p>Symbol Flame</p>



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	Disposal
<p>Keep away from ignition sources such as heat/sparks/open flame. - No smoking.</p> <p>Keep away from incompatible materials specified by the manufacturer/supplier or the competent authority.</p> <p>Keep only in original container.</p> <p>Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p>		<p>Store away from other materials.</p> <p>Store in cool place at temperatures not exceeding ...°C/...°F. ... specified by the manufacturer/supplier or the competent authority.</p> <p>Protect from sunlight.</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**CORROSIVE TO METALS
(CHAPTER 2.16)**

<p>Symbol Corrosion</p>

Hazard category

Signal word

Hazard statement

1

Warning

May be corrosive to metals



Precautionary statements			
Prevention	Response	Storage	Disposal
Keep only in original container.	Absorb spillage to prevent material damage.	Store in corrosive resistant/... container with a resistant inliner. ... other compatible materials specified by the manufacturer/supplier or the competent authority.	

**ACUTE TOXICITY - ORAL
(CHAPTER 3.1)**

Symbol Skull and crossbones



Hazard category	Signal word	Hazard statement
1	Danger	Fatal if swallowed
2	Danger	Fatal if swallowed

Precautionary statements			
Prevention	Response	Storage	Disposal
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Specific treatment (see ... on this label) ... reference to supplemental first aid instruction - <i>if immediate administration of antidote is required.</i>	Store locked up.	Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**ACUTE TOXICITY - ORAL
(CHAPTER 3.1)**

Symbol Skull and crossbones



Hazard category	Signal word	Hazard statement
3	Danger	Toxic if swallowed

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Do not eat, drink or smoke when using this product.</p> <p>Wash hands thoroughly after handling.</p>	<p>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>Rinse mouth.</p> <p>Specific treatment (see ... on this label) ... reference to supplemental first aid instruction - <i>if immediate administration of antidote is required.</i></p>	<p>Store locked up.</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**ACUTE TOXICITY - ORAL
(CHAPTER 3.1)**

Symbol Exclamation mark



Hazard category	Signal word	Hazard statement
4	Warning	Harmful if swallowed

Precautionary statements			
Prevention	Response	Storage	Disposal
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.		Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**ACUTE TOXICITY - ORAL
(CHAPTER 3.1)**

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
5	Warning	May be harmful if swallowed

Precautionary statements			
Prevention	Response	Storage	Disposal
	Call a POISON CENTER/doctor/physician if you feel unwell.		

**ACUTE TOXICITY - DERMAL
(CHAPTER 3.1)**

Symbol Skull and crossbones



Hazard category	Signal word	Hazard statement
1	Danger	Fatal in contact with skin
2	Danger	Fatal in contact with skin

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Do not eat, drink or smoke when using this product.</p> <p>Wash hands thoroughly after handling.</p> <p>Do not get in eyes, on skin, or on clothing.</p> <p>Wear protective gloves/clothing as specified by the manufacturer/supplier or the competent authority.</p>	<p>Remove/Take off immediately all contaminated clothing.</p> <p>IF ON SKIN: Gently wash with plenty of soap and water.</p> <p>Immediately call a POISON CENTRE or doctor/physician.</p> <p>Specific measures (see ... on this label) ... reference to supplemental first aid instruction - <i>if immediate measures such as specific cleansing agent is advised.</i></p> <p>Wash/Decontaminate removed clothing before reuse.</p>	<p>Store locked up.</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**ACUTE TOXICITY - DERMAL
(CHAPTER 3.1)**

<p>Symbol Skull and crossbones</p>



Hazard category	Signal word	Hazard statement
3	Danger	Toxic in contact with skin

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves/clothing as specified by the manufacturer/supplier or the competent authority.</p>	<p>Remove/Take off immediately all contaminated clothing.</p> <p>IF ON SKIN: Wash with plenty of soap and water.</p> <p>Call a POISON CENTRE or doctor/physician if you feel unwell.</p> <p>Specific measures (see ... on this label) ... reference to supplemental first aid instruction - <i>if measures such as specific cleansing agent is advised.</i></p> <p>Wash/Decontaminate removed clothing before reuse.</p>	<p>Store locked up.</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**ACUTE TOXICITY - DERMAL
(CHAPTER 3.1)**

<p>Symbol Exclamation mark</p>



Hazard category	Signal word	Hazard statement
4	Warning	Harmful in contact with skin

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves/clothing as specified by the manufacturer/supplier or the competent authority.</p>	<p>IF ON SKIN: Wash with plenty of soap and water.</p> <p>Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>Specific measures (see ... on this label) ... reference to supplemental first aid instruction.</p> <p>- <i>if measures such as specific cleansing agent is advised.</i></p> <p>Wash contaminated clothing before reuse.</p>		<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**ACUTE TOXICITY - DERMAL
(CHAPTER 3.1)**

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
5	Warning	May be harmful in contact with skin

Precautionary statements			
Prevention	Response	Storage	Disposal
	Call a POISON CENTER or doctor/physician if you feel unwell.		

**ACUTE TOXICITY - INHALATION
(CHAPTER 3.1)**

Symbol Skull and crossbones



Hazard category	Signal word	Hazard statement
1	Danger	Fatal if inhaled
2	Danger	Fatal if inhaled

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>Use only outdoors or in a well-ventilated area.</p> <p>Wear respiratory protection. as specified by the manufacturer/supplier or the competent authority.</p>	<p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>Immediately call a POISON CENTER or doctor/physician.</p> <p>Specific treatment is urgent (see ... on this label) ... reference to supplemental first aid instruction - <i>if immediate administration of antidote is required.</i></p>	<p>Store locked up.</p> <p>Store container tightly closed in well-ventilated place - <i>if product is as volatile as to generate hazardous atmosphere.</i></p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**ACUTE TOXICITY - INHALATION
(CHAPTER 3.1)**

Symbol Skull and crossbones



Hazard category	Signal word	Hazard statement
3	Danger	Toxic if inhaled

Precautionary statements			
Prevention	Response	Storage	Disposal
Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. Specific treatment (see ... on this label) ... reference to supplemental first aid instruction - <i>if immediate specific measures are required.</i>	Store locked up. Store container tightly closed in well-ventilated place - <i>if product is as volatile as to generate hazardous atmosphere.</i>	

**ACUTE TOXICITY - INHALATION
(CHAPTER 3.1)**

Symbol Exclamation mark



Hazard category	Signal word	Hazard statement
4	Warning	Harmful if inhaled

Precautionary statements			
Prevention	Response	Storage	Disposal
Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell		

**ACUTE TOXICITY - INHALATION
(CHAPTER 3.1)**

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
5	Warning	May be harmful if inhaled

Precautionary statements			
Prevention	Response	Storage	Disposal
	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell		

**SKIN CORROSION/IRRITATION
(CHAPTER 3.2)**

<p align="center">Symbol Corrosion</p>



Hazard category	Signal word	Hazard statement
1A to 1C	Danger	Causes severe skin burns and eye damage

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority.</p> <p>Wash thoroughly after handling.</p> <p>Do not breathe dust or mist <i>- if inhalable particles may occur during use.</i></p>	<p>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>Wash contaminated clothing before reuse.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.</p> <p>Immediately call a POISON CENTER or doctor/physician.</p> <p>Specific treatment (see ... on this label) ... reference to supplemental first aid instruction <i>may include a cleansing agent specified by the manufacturer/supplier or the competent authority.</i></p>	<p>Store locked up.</p>	<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**SKIN CORROSION/IRRITATION
(CHAPTER 3.2)**

<p>Symbol Exclamation mark</p>



Hazard category	Signal word	Hazard statement
2	Warning	Causes skin irritation

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves as specified by the manufacturer/supplier or the competent authority.</p> <p>Wash thoroughly after handling.</p>	<p>IF ON SKIN: Wash with plenty of soap and water.</p> <p>Take of contaminated clothing and wash before re-use.</p> <p>If skin irritation occurs, seek medical advice/attention.</p> <p>Specific treatment (see ... on this label) ... reference to supplemental first aid instruction <i>may include a cleansing agent specified by the manufacturer/supplier or the competent authority.</i></p>		

**SKIN CORROSION/IRRITATION
(CHAPTER 3.2)**

Symbol <i>No symbol</i>

Hazard category	Signal word	Hazard statement
3	Warning	Causes mild skin irritation

Precautionary statements			
Prevention	Response	Storage	Disposal
	If skin irritation occurs, get medical advice/attention.		

**EYE DAMAGE/IRRITATION
(CHAPTER 3.3)**

<p>Symbol Corrosion</p>



Hazard category	Signal word	Hazard statement
1	Danger	Causes serious eye damage

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Wear eye/face protection as specified by the manufacturer/supplier or the competent authority.</p>	<p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>Immediately call a POISON CENTER or doctor/physician.</p>		

**EYE DAMAGE/IRRITATION
(CHAPTER 3.3)**

<p>Symbol Exclamation mark</p>



Hazard category	Signal word	Hazard statement
2A	Warning	Causes serious eye irritation

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Wear eye/face protection as specified by the manufacturer/supplier or the competent authority.</p>	<p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>If eye irritation persists, get medical advice/attention.</p> <p>Wash hands after handling</p>		

**EYE DAMAGE/IRRITATION
(CHAPTER 3.3)**

<p>Symbol <i>No symbol</i></p>

Hazard category	Signal word	Hazard statement
2B	Warning	Causes eye irritation

Precautionary statements			
Prevention	Response	Storage	Disposal
	<p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>If eye irritation persists, get medical advice/attention.</p> <p>Wash hands after handling</p>		

**SENSITIZATION - RESPIRATORY
(CHAPTER 3.4)**

Symbol Health hazard



Hazard category	Signal word	Hazard statement
1	Danger	May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements			
Prevention	Response	Storage	Disposal
Avoid breathing dust/fume/gas/mist/vapours/spray. In case of inadequate ventilation wear respiratory protection as specified by the manufacturer/supplier or the competent authority.	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.		Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**SENSITIZATION - SKIN
(CHAPTER 3.4)**

<p>Symbol Exclamation mark</p>



Hazard category	Signal word	Hazard statement
1	Warning	May cause an allergic skin reaction

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves as specified by the manufacturer/supplier or the competent authority.</p> <p>Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p>	<p>IF ON SKIN: Wash with plenty of soap and water.</p> <p>If skin irritation or rash occurs, seek medical advice/attention.</p> <p>Specific treatment (see ... on this label) ... reference to supplemental first aid instruction <i>may include a cleansing agent specified by the manufacturer/supplier or the competent authority.</i></p> <p>Wash contaminated clothing before reuse.</p>		<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**GERM CELL MUTAGENICITY
(CHAPTER 3.5)**

Symbol Health hazard



Hazard category	Signal word	Hazard statement
1	Danger	May cause genetic defects <...>
2	Warning	Suspected of causing genetic defects <...>

<...> *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)*

Precautionary statements			
Prevention	Response	Storage	Disposal
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.	IF exposed or concerned: Get medical attention/advice.	Store locked up.	Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**CARCINOGENICITY
(CHAPTER 3.6)**

Symbol Health hazard



Hazard category	Signal word	Hazard statement
1	Danger	May cause cancer <...>
2	Warning	Suspected of causing cancer <...>

<...> *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).*

Precautionary statements			
Prevention	Response	Storage	Disposal
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.	IF exposed or concerned: Get medical attention/advice.	Store locked up.	Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**TOXIC TO REPRODUCTION
(CHAPTER 3.7)**

Symbol Health hazard



Hazard category	Signal word	Hazard statement
1	Danger	May damage fertility or the unborn child <...> <<...>>
2	Warning	Suspected of damaging fertility or the unborn child <...> <<...>> <...> <i>(state specific effect if known)</i> <<...>> <i>(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i>

Precautionary statements			
Prevention	Response	Storage	Disposal
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.	IF exposed or concerned: Get medical attention/advice.	Store locked up.	Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

TOXIC TO REPRODUCTION
(CHAPTER 3.7)
(effects on or via lactation)

Symbol <i>No symbol</i>

Hazard category <i>(additional)</i>	Signal word <i>No signal word</i>	Hazard statement May cause harm to breast-fed children
---	---	--

Precautionary statements			
Prevention	Response	Storage	Disposal
Obtain special instructions before use. Avoid contact during pregnancy/while nursing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Do not breathe dust or mist <i>- if inhalable particles may occur during use</i>	IF exposed or concerned: Get medical attention/advice.		

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)
(CHAPTER 3.8)**

Symbol 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 it is conclusively proven that no other routes of exposure cause the hazard)



Precautionary statements			
Prevention	Response	Storage	Disposal
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/vapours/spray.	IF exposed: Call a POISON CENTER or doctor/physician. Specific treatment (see ... on this label) ... reference to supplemental first aid instruction - if immediate measures are required.	Store locked up.	Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)
(CHAPTER 3.8)**

Symbol 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 it is conclusively proven that no other routes of exposure cause the hazard)



Precautionary statements			
Prevention	Response	Storage	Disposal
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/vapours/spray.	Call a POISON CENTER or doctor/physician if exposed or you feel unwell.	Store locked up.	Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)
(CHAPTER 3.8)**

Symbol Exclamation mark



Hazard category	Signal word	Hazard statement
3	Warning	May cause respiratory irritation; or May cause drowsiness and dizziness

Precautionary statements			
Prevention	Response	Storage	Disposal
Use only outdoors or in well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.	Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.	Store locked up. Store container tightly closed in well-ventilated place - <i>if product is as volatile as to generate hazardous atmosphere.</i>	Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)
(CHAPTER 3.9)**

Symbol Health hazard



Hazard category	Signal word	Hazard statement
1	Danger	Causes damage to organs <...> through prolonged or repeated exposure <<...>>. <...> (state all organs affected, if known) <<...>> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Precautionary statements			
Prevention	Response	Storage	Disposal
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/vapours/spray.	Get medical attention/advice if you feel unwell.		Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)
(CHAPTER 3.9)**

Symbol Health hazard



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

Precautionary statements			
Prevention	Response	Storage	Disposal
Do not breathe dust/fume/gas/mist/vapours/spray.	Get medical attention/advice if you feel unwell.		Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**ASPIRATION TOXICITY
(CHAPTER 3.10)**

Symbol Health hazard



Hazard category	Signal word	Hazard statement
1	Danger	May be fatal if swallowed and enters airways
2	Warning	May be harmful if swallowed and enters airways

Precautionary statements			
Prevention	Response	Storage	Disposal
	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.	Store locked up.	Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD
(CHAPTER 4.1)**

Symbol Environment



Hazard category	Signal word	Hazard statement
1	Warning	Very toxic to aquatic life

Precautionary statements			
Prevention	Response	Storage	Disposal
Avoid release to the environment - <i>if this is not the intended use.</i>	Collect spillage.		Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).

**HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD
(CHAPTER 4.1)**

<p>Symbol <i>No symbol</i></p>

Hazard category	Signal word	Hazard statement
2	<i>No signal word</i>	Toxic to aquatic life
3	<i>No signal word</i>	Harmful to aquatic life

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Avoid release to the environment <i>- if this is not the intended use.</i></p>			<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD
(CHAPTER 4.1)**

<p align="center">Symbol Environment</p>



Hazard category	Signal word	Hazard statement
1	Warning	Very toxic to aquatic life with long lasting effects
2	<i>No signal word</i>	Toxic to aquatic life with long lasting effects

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Avoid release to the environment - <i>if this is not the intended use.</i></p>	<p>Collect spillage.</p>		<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

**HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD
(CHAPTER 4.1)**

<p>Symbol <i>No symbol</i></p>

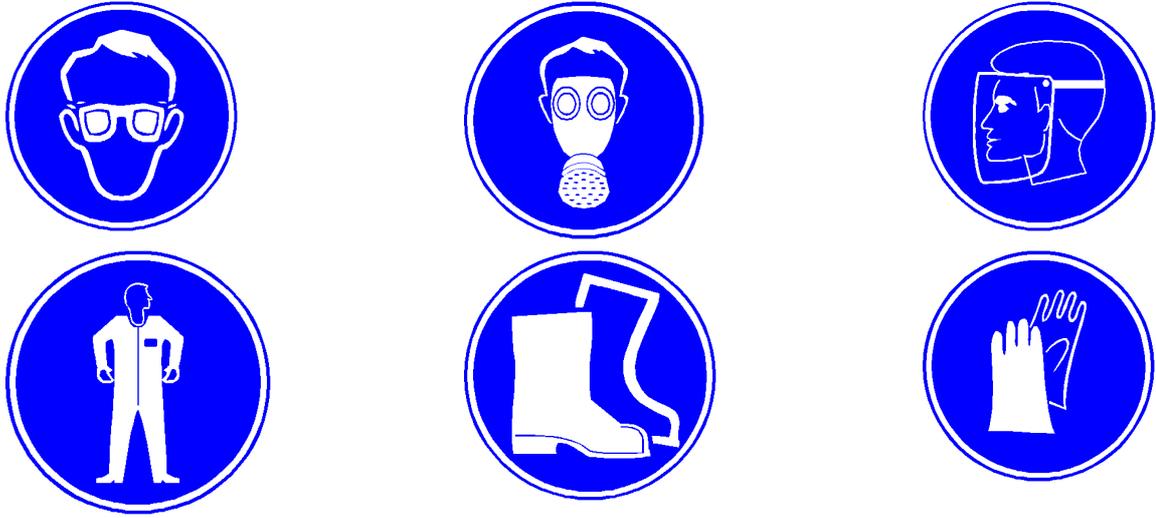
Hazard category	Signal word	Hazard statement
3	<i>No signal word</i>	Harmful to aquatic life with long lasting effects
4	<i>No signal word</i>	May cause long lasting harmful effects to aquatic life

Precautionary statements			
Prevention	Response	Storage	Disposal
<p>Avoid release to the environment - <i>if this is not the intended use.</i></p>			<p>Dispose of contents/container to... ... (in accordance with local/regional/national/international regulation).</p>

A3.7

Precautionary pictograms

From European Union (Council Directive 92/58/EEC of 24 June 1992)



From South African Bureau of Standards (SABS 0265:1999)

