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**COMMITTEE OF EXPERTS ON THE TRANSPORT OF
DANGEROUS GOODS AND ON THE GLOBALLY
HARMONIZED SYSTEM OF CLASSIFICATION
AND LABELLING OF CHEMICALS**

Sub-Committee of Experts on the Globally Harmonized System
of Classification and Labelling of Chemicals

Eight session, 6-9 December 2004
Item 3 (a) of the provisional agenda

DEVELOPMENT OF GUIDANCE FOR IMPLEMENTATION

Precautionary Statements (PS)

Transmitted by the expert from Germany

INTRODUCTION

1. At its fourth session in December 2002, the Sub-Committee decided to set up a Correspondence Group on Precautionary Statements (ST/SG/AC.10/C.4/8, para. 27), the objective of which would be to derive advice on how to avoid hazards indicated by GHS hazard statements or to respond to incidents.

ATTENDANCE

2. Experts from Australia, Austria, Belgium, Canada, Denmark, Germany, Italy, Japan, the Netherlands, the United States of America; the Commission of the European Communities (CEC) and the International Programme on Chemical Safety (WHO/ILO/UNEP) have been participating in the correspondence group.

3. Representatives of the following non-governmental organizations took part in the discussion of items of concern to their organizations: European Chemical Industry Council (CEFIC), Dangerous Goods Advisory Council (DGAC), International Association of the Soap, Detergent and Maintenance Products Industry (AISE), American Chemistry Council (ACC), International Council of Chemical Associations (ICCA), International Organization for Standardization (ISO), Soap and Detergent Association (SDA).

STARTING POINT

4. Whereas several existing systems with sets of phrases are documented, the IPCS International Chemical Safety Card (ICSC) Compilers Guide, the American National Standards (ANSI Z129.1) and the EU labelling system (S-phrases) have been used as the major information sources for the selection of precautionary statements covering most of those used by other systems.

REPORTING

5. The current status of discussions within the Correspondence Group has been reported to the Sub-Committee at its fifth (UN/SCEGHS/5/INF.5) and sixth sessions (UN/SCEGHS/6/INF.2 and INF.9). The Sub-Committee took note of the progress and the interim decisions on the lines of further development of the guidance as proposed by the group (ST/SG/AC.10/C.4/10, paras. 13, 14, 17, Annex 3 and ST/SG/AC.10/C.4/12, paras. 34 to 37, Annex 3). In particular, it was decided that the text for precautionary statements would be a revision of current Annex 3 of the GHS.

6. A complete revision of Annex 3 (ST/SG/AC.10/C.4/2004/8) was submitted for discussion at the seventh session by the expert from Germany. The Sub-Committee also took note of a WHO/IPCS Expert Workshop held in Freiburg (23-25 June 2004) at which the GHS was discussed among experts from five WHO regions with experience in the management of poisoning and poisons centre operations (UN/SCEGHS/7/INF.25). This Workshop provided an opportunity to review in detail the proposals of Annex 3. After consideration of additional comments and in expectation of further advice from the representative of WHO the Sub-Committee decided to wait for a resubmission of an amended proposal at the next session by the Chair of the Correspondence Group (ST/SG/AC.10/C.4/14, paras. 43 to 45).

SCOPE OF WORK

7. Precautionary statements have been linked with the hazard classes and categories of the GHS. Harmonization of existing precautionary statements has been undertaken in a way to maintain flexibility allowed for the language and combination of words used by the manufacturer/user or prescribed by competent authorities.

8. As guidance, a set of commonly used precautionary statements included in the proposed revised Annex 3 to the GHS document will promote greater convergence of the hazard communication elements of existing systems, greater consistency in the application of precautionary statements, and improved understanding of label phrases.

9. The proposed guidance is regarded as a living document subject to further development and refinement. Whereas the set of statements as proposed in the matrix section is regarded as comprehensive for the time being, further options could be elaborated to take the properties of products and their intended or foreseeable uses into account.

PROPOSAL

The Sub-Committee is invited to consider:

- (1) replacing the current GHS Annex 3 with the revised Annex,
and
- (2) amending the fourth and fifth sentences of GHS Section 1.4.6.2 to read: "Although precautionary statements have not been fully harmonized in the current GHS, Annex 3 of this document provides guidance to aid in the selection of appropriate statements. Additional work to achieve greater standardization in this area may be undertaken in the future, once countries have gained experience with the system."

* * * * *

Annex

Annex 3

PRECAUTIONARY STATEMENTS AND PRECAUTIONARY PICTOGRAMS

A3.1 Preface

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/distributor and/or competent authority (see Chapter 1.2 and in Chapter 1.4, the section 1.4.6.3).

A **Precautionary statement** is a phrase (and/or pictogram) that 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)).

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 North American Emergency Response Guidebook (ERG 2004), and U.S. Environmental Protection Agency Label Review Manual.

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.

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.

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.

The 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

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 that 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 languages other than English.

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 (paragraph 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 4). If certain hazard statements are not required then the corresponding precautionary statements are also not necessary (paragraph A4.1.1).

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

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.

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

General precautionary measures should be adopted for all substances which are classified as hazardous to human health or the environment. To that effect, the need and information sources of three groups of users or applicators can be taken into account: the general public, the commercial user, and the industrial worker.

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.

Commercial use means the use of chemicals for private enterprise purposes. As commercial settings may include family-run operations, access of children must be excluded for commercial products.

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.

The following general precautionary measures 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.
Commercial user	GHS Label, Supplemental Label Information, Safety Data Sheet	Keep out of reach of children. Read directions/label/Safety Data Sheet before use. If medical advice is needed: Have product container/label/Safety Data Sheet 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

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.

The tables making up the matrix show the **core part of the precautionary statements in bold print**. Derogations from the recommended labelling requirements 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*.

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 or competent authorities may prescribe the most appropriate phrase.

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 when considering the form and type of the substance. 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.

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

In the majority of cases, different phrases 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.

Where a substance is classified according to a number of different types of health hazard, 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.

To protect people with different reading abilities, it might be useful to include both phrases and pictograms for precautionary measures because information should be conveyed in more than one way (paragraph 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.

<A3.6 Matrix of Precautionary Statements by Hazard Class/Category>

<A3.7 Precautionary Pictograms > to be kept as it stands now.

EXPLOSIVES
(Chapter 2.1)

Symbol Explosion Bomb



Hazard Category
Division 1.1
Division 1.2
Division 1.3

Signal Word
Danger
Danger
Danger

Hazard Statement
Explosive; mass explosion hazard
Explosive; severe projection hazard
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 or the competent authority.</p> <p>Keep wetted with appropriate material specified by the manufacturer or the competent authority. - if drying out increases explosion hazard. <i>Example: nitrocelluloses</i></p> <p>Ground/Bond container and receiving equipment. - if electrostatically sensitive material is for reloading.</p>	<p>In case of fire:. Evacuate area and fight fire remotely due to the risk of explosion.</p>	<p>Store (in accordance with local/regional/national/international regulation).</p>	<p>Dispose of this material/its container (in accordance with local/regional/national/international regulation).</p>

EXPLOSIVES
(Chapter 2.1)

Symbol <i>None</i>

Hazard Category
Division 1.4

Signal Word
Warning

Hazard Statement
Fire or projection hazard

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Keep away from <i>ignition sources such as heat/sparks/open flame.</i> - No smoking.</p> <p>Do not subject to <i>rough handling such as grinding/shock/friction.</i></p>	<p>In case of major fire and large quantities: Evacuate area and fight fire remotely due to the risk of explosion.</p>	<p>Store (in accordance with local/regional/national/international regulation).</p>	<p>Dispose of (in accordance with local/regional/national/international regulation).</p>

EXPLOSIVES
(Chapter 2.1)

Symbol <i>None</i>

Hazard Category
Division 1.5

Signal Word
Warning

Hazard Statement
May explode in fire.

Precautionary Statements			
Prevention	Response	Storage	Disposal
Keep away from <i>ignition sources such as heat/sparks/open flame.</i> - No smoking.	In case of major fire and large quantities: Evacuate area and fight fire remotely due to the risk of explosion.	Store (in accordance with local/regional/national/international regulation).	Dispose of this material/its container (in accordance with local/regional/national/international regulation).

FLAMMABLE GASES
(Chapter 2.2)

Symbol Flame

Hazard Category
1

Signal Word
Danger

Hazard Statement
Extremely flammable gas



Precautionary Statements			
Prevention	Response	Storage	Disposal
<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 or the competent authority.</p> <p>* Take precautionary measures against static discharge.</p>	<p>Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.</p>	<p>Store in well-ventilated place.</p>	

* if likely to be used commercially.

FLAMMABLE GASES
(Chapter 2.2)

Symbol <i>None</i>

Hazard Category
2

Signal Word
Warning

Hazard Statement
Flammable gas

Precautionary Statements			
Prevention	Response	Storage	Disposal
Keep away from <i>ignition sources such as heat/sparks/open flame.</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

1
2

Signal Word

Danger
Warning

Hazard Statement

Extremely flammable aerosol
Flammable aerosol

Precautionary Statements

Prevention	Response	Storage	Disposal
<p>Pressurized container: Do not pierce or burn, even after use.</p> <p>Do not spray on an open flame or any white-hot material.</p> <p>Keep away from <i>ignition sources such as heat/sparks/open flame.</i> - No smoking.</p>		<p>Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

OXIDIZING GASES
(Chapter 2.4)

Symbol
Flame over circle



Hazard Category
1

Signal Word
Danger

Hazard Statement
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.	

* if likely to be used commercially.

GASES UNDER PRESSURE
(Chapter 2.5)

Symbol Gas cylinder



Hazard Category

Compressed gas
Liquefied gas
Dissolved gas

Signal Word

Warning
Warning
Warning

Hazard Statement

Contains gas under pressure; may explode if heated
Contains gas under pressure; may explode if heated
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
Refrigerated liquefied gas

Signal Word
Warning

Hazard Statement
Contains refrigerated gas; may cause cryogenic burns or injury

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wear cold insulating gloves/face shield/eye protection when operating pressure equipment.</p>	<p>IF ON SKIN OR CLOTHES: Rinse immediately contaminated clothes and skin with plenty of water before removing clothes.</p> <p>Thaw frosted parts with lukewarm water.</p> <p>Do not rub affected area.</p> <p>Seek immediate medical attention/advice.</p>	<p>Protect from sunlight and store in well-ventilated place .</p>	

FLAMMABLE LIQUIDS
(Chapter 2.6)

Symbol Flame



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 or the competent authority.</p> <p>Ground/Bond container and receiving equipment. <i>- if electrostatically sensitive material is for reloading.</i></p> <p><i>- if product is as volatile as to generate hazardous atmosphere:</i></p> <ul style="list-style-type: none"> * Use explosion-proof electrical/ventilating/lighting/... equipment. ... other specified by the manufacturer or the competent authority. * Take precautionary measures against static discharge. * Use only non-sparking tools. 	<p>In case of fire, use ... for extinction. ... appropriate media specified by the manufacturer or the competent authority. <i>- if water increases risk.</i></p>	<p>Store in cool/well-ventilated place.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially.

FLAMMABLE LIQUIDS
(Chapter 2.6)

Symbol <i>None</i>

Hazard Category
4

Signal Word
Warning

Hazard Statement
Combustible liquid

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves and eye/face protection. as specified by the manufacturer 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 or the competent authority. <i>- if water increases risk..</i></p>		<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

FLAMMABLE SOLIDS
(Chapter 2.7)

Symbol Flame



Hazard Category

1
2

Signal Word

Danger
Danger

Hazard Statement

Flammable solid
Flammable solid

Precautionary Statements

Prevention	Response	Storage	Disposal
<p>Wear protective gloves and eye/face protection. as specified by the manufacturer 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 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 or the competent authority. - <i>if water increases risk..</i></p>		

* if likely to be used commercially.

SELF-REACTIVE SUBSTANCES
(Chapter 2.8)

Symbol
Exploding Bomb



Hazard Category
Type A

Signal Word
Danger

Hazard Statement
Heating may cause an explosion

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves and eye/face protection. as specified by the manufacturer 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 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 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 or the competent authority</p> <p>Store away from other materials.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

SELF-REACTIVE SUBSTANCES
(Chapter 2.8)

Symbol Exploding Bomb & Flame
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Hazard Category
Type B

Signal Word
Danger

Hazard Statement
Heating may cause a fire or explosion



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves and eye/face protection. as specified by the manufacturer 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 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 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 or the competent authority.</p> <p>Store away from other materials.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

SELF-REACTIVE SUBSTANCES
(Chapter 2.8)

Symbol Flame



Hazard Category

Type C
Type D
Type E
Type F

Signal Word

Danger
Danger
Warning
Warning

Hazard Statement

Heating may cause a fire
Heating may cause a fire
Heating may cause a fire
Heating may cause a fire

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves and eye/face protection. as specified by the manufacturer 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 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 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 or the competent authority.</p> <p>Store away from other materials.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially.

PYROPHORIC LIQUIDS
(Chapter 2.9)

Symbol Flame

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Annex

Hazard Category
1

Signal Word
Danger

Hazard Statement
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 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 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 or the competent authority.</p>	

PYROPHORIC SOLIDS
(Chapter 2.10)

Symbol Flame

Hazard Category
1

Signal Word
Danger

Hazard Statement
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 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 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 or the competent authority.</p>	

SELF-HEATING SUBSTANCES
(Chapter 2.11)

Symbol Flame



Hazard Category

1
2

Signal Word

Danger
Warning

Hazard Statement

Self-heating; may catch fire
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 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 or the competent authority.</p> <p>Maintain air gap between stacks/pallets.</p>	

* if likely to be used commercially or by the general public.

SUBSTANCES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES
(Chapter 2.12)

Symbol 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
<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 or the competent authority.</p>	<p>In case of fire, use ... for extinction. ... appropriate media specified by the manufacturer 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 this material and its container to (in accordance with local/regional/national/international regulation).</p>

SUBSTANCES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES
(Chapter 2.12)

Symbol Flame

Hazard Category
3

Signal Word
Warning

Hazard Statement
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 or the competent authority.</p>	<p>In case of fire, use ... for extinction. ... appropriate media specified by the manufacturer or the competent authority. <i>- if water increases risk..</i></p>	<p>Store in a dry place and/or in closed container.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

OXIDIZING LIQUIDS
(Chapter 2.13)

Symbol Flame over circle

Hazard Category
1

Signal Word
Danger

Hazard Statement
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/ flame resistant/retardant clothing.</p> <p>Wear protective gloves and eye/face protection. as specified by the manufacturer or the competent authority.</p> <p>Do not unintentionally mix with combustibles/... other incompatible materials specified by the manufacturer 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 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 or the competent authority.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

OXIDIZING LIQUIDS
(Chapter 2.13)

Symbol Flame over circle



Hazard Category

2
3

Signal Word

Danger
Warning

Hazard Statement

May intensify fire; oxidizer
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 or the competent authority.</p> <p>Do not unintentionally mix with combustibles/... other incompatible materials specified by the manufacturer or the competent authority.</p>	<p>In case of fire, use ... for extinction. ... appropriate media specified by the manufacturer or the competent authority. <i>- if water increases risk..</i></p>	<p>Store away from combustibles/... other incompatible materials specified by the manufacturer or the competent authority.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

OXIDIZING SOLIDS
(Chapter 2.14)

Symbol Flame over circle

Hazard Category
1

Signal Word
Danger

Hazard Statement
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/ flame resistant/retardant clothing.</p> <p>Wear protective gloves and eye/face protection. as specified by the manufacturer or the competent authority.</p> <p>Do not unintentionally mix with combustibles/... other incompatible materials specified by the manufacturer 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 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 or the competent authority.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

OXIDIZING SOLIDS
(Chapter 2.14)

Symbol Flame over circle



Hazard Category

2
3

Signal Word

Danger
Warning

Hazard Statement

May intensify fire; oxidizer
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 or the competent authority.</p> <p>Do not unintentionally mix with combustibles/... other incompatible materials specified by the manufacturer or the competent authority.</p>	<p>In case of fire, use ... for extinction. ... appropriate media specified by the manufacturer or the competent authority. <i>- if water increases risk.</i></p>	<p>Store away from combustibles/... other incompatible materials specified by the manufacturer or the competent authority.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

ORGANIC PEROXIDES
(Chapter 2.15)

Symbol Explosion Bomb



Hazard Category
Type A

Signal Word
Danger

Hazard Statement
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 or the competent authority.</p> <p>Wear protective gloves and eye/face protection. as specified by the manufacturer 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 or the competent authority.</p> <p>Protect from sunlight.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

ORGANIC PEROXIDES
(Chapter 2.15)

Symbol
Exploding Bomb &
Flame over circle



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 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 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 or the competent authority.</p> <p>Protect from sunlight.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

ORGANIC PEROXIDES
(Chapter 2.15)

Symbol Flame over circle



Hazard Category

Type C
Type D
Type E
Type F

Signal Word

Danger
Danger
Warning
Warning

Hazard Statement

Heating may cause a fire
Heating may cause a fire
Heating may cause a fire
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 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 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 or the competent authority.</p> <p>Protect from sunlight.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

CORROSIVE TO METALS
(Chapter 2.16)

Symbol Corrosion

Hazard Category
1

Signal Word
Warning

Hazard Statement
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 liner. ... other compatible materials specified by the manufacturer or the competent authority.	

* if likely to be used commercially or by the general public.

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
<p>Do not eat, drink or use tobacco when using this product.</p> <p>Wash hands thoroughly after handling.</p>	<p>IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician.</p> <p>Rinse mouth</p> <p>Give a slurry of activated charcoal if advised. - <i>if ingestion of a solid water soluble substance</i></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 this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

ACUTE TOXICITY – ORAL
(Chapter 3.1)

Symbol Skull and crossbones



Hazard Category
3

Signal Word
Danger

Hazard Statement
Toxic if swallowed

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Do not eat, drink or use tobacco when using this product.</p> <p>Wash hands thoroughly after handling.</p>	<p>IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician.</p> <p>Rinse mouth.</p> <p>Specific treatment (see ... on this label) ... reference to Supplemental First Aid Instruction. <i>-if specific measures are required.</i></p>	<p>* Store locked up.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

ACUTE TOXICITY – ORAL
(Chapter 3.1)

Symbol Exclamation mark



Hazard Category
4

Signal Word
Warning

Hazard Statement
Harmful if swallowed

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Do not eat, drink or use tobacco when using this product.</p> <p>Wash hands thoroughly after handling.</p>	<p>IF SWALLOWED: Call a POISON CONTROL CENTER or doctor/physician if you feel unwell.</p> <p>Rinse mouth.</p>		<p>Dispose of this material and its container to</p> <p>... (in accordance with local/regional/national/international regulation).</p>

ACUTE TOXICITY – ORAL
(Chapter 3.1)

Symbol <i>None</i>

Hazard Category
5

Signal Word
Warning

Hazard Statement
May be harmful if swallowed

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

ACUTE TOXICITY – DERMAL
(Chapter 3.1)

Symbol Skull and crossbones



Hazard Category
1
2

Signal Word
Danger
Danger

Hazard Statement
Fatal in contact with skin
Fatal in contact with skin

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Do not eat, drink or use tobacco when using this product.</p> <p>Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing.</p> <p>Wear protective gloves/clothing. as specified by the manufacturer 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 CONTROL 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 this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

ACUTE TOXICITY – DERMAL
(Chapter 3.1)

Symbol Skull and crossbones



Hazard Category
3

Signal Word
Danger

Hazard Statement
Toxic in contact with skin

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves/clothing. as specified by the manufacturer 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 CONTROL 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 this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

ACUTE TOXICITY – DERMAL
(Chapter 3.1)

Symbol Exclamation mark

Hazard Category
4

Signal Word
Warning

Hazard Statement
Harmful in contact with skin



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves/clothing. as specified by the manufacturer or the competent authority.</p>	<p>IF ON SKIN: Wash with plenty of soap and water.</p> <p>Call a POISON CONTROL CENTER 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 contaminated clothing before reuse.</p>		<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

ACUTE TOXICITY – DERMAL
(Chapter 3.1)

Symbol <i>None</i>

Hazard Category
5

Signal Word
Warning

Hazard Statement
May be harmful in contact with skin

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

**ACUTE TOXICITY – INHALATION
(Chapter 3.1)**

Symbol Skull and crossbones

Hazard Category

1
2

Signal Word

Danger
Danger

Hazard Statement

Fatal if inhaled
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 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 CONTROL 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>	

* if likely to be used commercially or by the general public.

**ACUTE TOXICITY – INHALATION
(Chapter 3.1)**

Symbol Skull and crossbones

Hazard Category
3

Signal Word
Danger

Hazard Statement
Toxic if inhaled



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Use only outdoors or in a well-ventilated area.</p> <p>Avoid breathing dust/fume/gas/mist/vapours/spray.</p>	<p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.</p> <p>Call a POISON CONTROL CENTER or doctor/physician.</p> <p>Specific treatment (see ... on this label) ... reference to Supplemental First Aid Instruction <i>- if immediate specific measures are 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>	

* if likely to be used commercially or by the general public.

ACUTE TOXICITY – INHALATION
(Chapter 3.1)

Symbol
Exclamation mark

Hazard Category
4

Signal Word
Warning

Hazard Statement
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 CONTROL CENTER or doctor/physician if you feel unwell		

ACUTE TOXICITY – INHALATION
(Chapter 3.1)

Symbol <i>None</i>

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Hazard Category
5

Signal Word
Warning

Hazard Statement
May be harmful if inhaled

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

SKIN CORROSION/IRRITATION
(Chapter 3.2)

Symbol Corrosion



Hazard Category
1A to 1C

Signal Word
Danger

Hazard Statement
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 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 under the shower and wash skin with plenty of soap and water.</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 CONTROL 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 or the competent authority.</i></p>	<p>* Store locked up.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

SKIN CORROSION/IRRITATION
(Chapter 3.2)

Symbol Exclamation mark



Hazard Category

2

Signal Word

Warning

Hazard Statement

Causes skin irritation

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves. as specified by the manufacturer 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 or the competent authority.</i></p>		

SKIN CORROSION/IRRITATION
(Chapter 3.2)

Symbol <i>None</i>

Hazard Category
3

Signal Word
Warning

Hazard Statement
Causes mild skin irritation

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

EYE DAMAGE/IRRITATION
(Chapter 3.3)

Symbol Corrosion



Hazard Category
1

Signal Word
Danger

Hazard Statement
Causes serious eye damage

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

EYE DAMAGE/IRRITATION
(Chapter 3.3)

Symbol
Exclamation mark

Hazard Category
2A

Signal Word
Warning

Hazard Statement
Causes serious eye irritation



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

EYE DAMAGE/IRRITATION
(Chapter 3.3)

Symbol <i>None</i>

Hazard Category
2B

Signal Word
Warning

Hazard Statement
Causes eye irritation

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

SENSITIZATION - RESPIRATORY
(Chapter 3.4)

Symbol Health Hazard



Hazard Category
1

Signal Word
Danger

Hazard Statement
May cause allergy or asthma symptoms or breathing difficulties if inhaled

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

SENSITIZATION - SKIN
(Chapter 3.4)

Symbol Exclamation mark



Hazard Category
1

Signal Word
Warning

Hazard Statement
May cause an allergic skin reaction

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Wear protective gloves. as specified by the manufacturer 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 or the competent authority.</i></p> <p>Wash contaminated clothing before reuse.</p>		

* if likely to be used commercially.

GERM CELL MUTAGENICITY
(Chapter 3.5)

Symbol Health Hazard



Hazard Category

1
2

Signal Word

Danger
Warning

Hazard Statement

May cause genetic defects <...>
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 this material and its container to (in accordance with local/regional/national/international regulation).

* if likely to be used commercially or by the general public.

CARCINOGENICITY
(Chapter 3.6)

Symbol Health Hazard



Hazard Category

1
2

Signal Word

Danger
Warning

Hazard Statement

May cause cancer <...>
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
<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>IF exposed or concerned: Get medical attention/advice.</p>	<p>* Store locked up.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

TOXIC TO REPRODUCTION
(Chapter 3.7)

Symbol Health Hazard

Hazard Category
1
2

Signal Word
Danger
Warning

Hazard Statement
May damage fertility or the unborn child <...> <<...>>
Suspected of damaging fertility or the unborn child <...> <<...>>



<...> (state specific effect 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
<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>IF exposed or concerned: Get medical attention/advice.</p>	<p>* Store locked up.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

TOXIC TO REPRODUCTION
 (Chapter 3.7)
 (EFFECTS ON OR VIA LACTATION)

Symbol <i>None</i>

Hazard Category
(additional)

Signal Word
No signal word

Hazard Statement
 May cause harm to breast-fed children

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

TARGET ORGAN SYSTEMIC TOXICITY (Single Exposure)
(Chapter 3.8)

Symbol Health Hazard

Hazard Category
1

Signal Word
Danger

Hazard Statement
Causes damage to <...> if <<...>>.

<...> *(state all organs affected, or use a general statement where there is no definite evidence that other organs are not effected.)*

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



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Do not eat, drink or use tobacco when using this product.</p> <p>Wash hands thoroughly after handling.</p> <p>Do not breathe dust or mist. - <i>if inhalable particles may occur during use.</i></p>	<p>IF exposed: Call a POISON CONTROL CENTER or doctor/physician.</p> <p>Specific treatment (see ... on this label) ... reference to Supplemental First Aid Instruction. - <i>if immediate measures are required.</i></p>	<p>* Store locked up.</p>	<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

TARGET ORGAN SYSTEMIC TOXICITY (Single Exposure)
(Chapter 3.8)

Symbol Health Hazard

Hazard Category
2

Signal Word
Warning

Hazard Statement
May cause damage to <...> if <<...>>.

<...> *(state all organs affected, or use a general statement where there is no definite evidence that other organs are not effected.)*

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



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Do not eat, drink or use tobacco when using this product.</p> <p>Wash hands thoroughly after handling.</p> <p>Do not breathe dust or mist. <i>- if inhalable particles may occur during use.</i></p>	<p>Call a POISON CONTROL CENTER or doctor/physician if exposed or you feel unwell.</p>		<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

TARGET ORGAN SYSTEMIC TOXICITY (Single Exposure)
(Chapter 3.8)

Symbol Exclamation Mark

Hazard Category
3

Signal Word
Warning

Hazard Statement
May cause respiratory irritation or
May cause drowsiness and dizziness



Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Use only outdoors or in well-ventilated area.</p> <p>Avoid breathing dust/fume/gas/mist/vapours/spray.</p>	<p>Call a POISON CONTROL CENTER or doctor/physician if you feel unwell.</p> <p>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.</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 this material and its container to</p> <p>... (in accordance with local/regional/national/international regulation).</p>

* if likely to be used commercially or by the general public.

TARGET ORGAN SYSTEMIC TOXICITY (Repeated Exposure)
(Chapter 3.9)

Symbol Health Hazard

Hazard Category
1

Signal Word
Danger

Hazard Statement
Causes <...> damage through prolonged or repeated exposure <<...>>.



<...> (state all organs affected, or use a general statement where there is no definite evidence that other organs are not effected.)

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

Precautionary Statements			
Prevention	Response	Storage	Disposal
<p>Do not eat, drink or use tobacco when using this product.</p> <p>Wash hands thoroughly after handling.</p> <p>Do not breathe dust or mist. - if inhalable particles may occur during use.</p>	<p>Get medical attention/advice if you feel unwell.</p>		<p>Dispose of this material and its container to (in accordance with local/regional/national/international regulation).</p>

TARGET ORGAN SYSTEMIC TOXICITY (Repeated Exposure)
(Chapter 3.9)

Symbol Health Hazard

Hazard Category
2

Signal Word
Warning

Hazard Statement
May cause <...> damage through prolonged or repeated exposure <<...>>.



<...> (state all organs affected, or use a general statement where there is no definite evidence that other organs are not effected.)
<<...>> (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 breathe dust or mist. - if inhalable particles may occur during use.	Get medical attention/advice if you feel unwell.		Dispose of this material and its container to (in accordance with local/regional/national/international regulation).

AQUATIC ENVIRONMENT - ACUTE HAZARD
(Chapter 3.10)

Symbol Environment



Hazard Category
1

Signal Word
Warning

Hazard Statement
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 this material and its container to (in accordance with local/regional/national/international regulation).

AQUATIC ENVIRONMENT - ACUTE HAZARD
(Chapter 3.10)

Symbol <i>None</i>

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
Avoid release to the environment. <i>- if this is not the intended use.</i>			Dispose of this material and its container to (in accordance with local/regional/national/international regulation).

AQUATIC ENVIRONMENT - CHRONIC HAZARD
(Chapter 3.10)

Symbol Environment

Hazard Category

- 1
- 2

Signal Word

- Warning
- No signal word*

Hazard Statement

- Very toxic to aquatic life with long lasting effects
- Toxic to aquatic life with long lasting effects



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

AQUATIC ENVIRONMENT - CHRONIC HAZARD
(Chapter 3.10)

Symbol <i>None</i>

Hazard Category
3
4

Signal Word
No signal word
No signal word

Hazard Statement
Harmful to aquatic life with long lasting effects
May cause long lasting harmful effects to aquatic life.

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

ASPIRATION TOXICITY
(Chapter 3.11)

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 CONTROL CENTER or doctor/physician. Do NOT induce vomiting.	* Store locked up.	Dispose of this material and its container to (in accordance with local/regional/national/international regulation).

* if likely to be used commercially or by the general public.