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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

<u>Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals</u>

Seventh session, 14-16 July 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 standardized 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 International Programme on Chemical Safety (WHO/ILO/UNEP) and the Commission of the European Communities (CEC) 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).

PROCEDURE

4. Beyond the exchange of views by e-mail, the Correspondence Group gratefully accepted the opportunity as offered by the Sub-Committee secretariat to meet before the plenary session of the Sub-Committee 5th session to discuss the structure of the guidance document. The results of this meeting are reflected in UN/SCEGHS/5/INF.22.

STARTING POINT

5. 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

6. The current status of discussion within the Correspondence Group have been reported to the Sub-Committee at its fifth (UN/SCEGHS/5/INF.5) and sixth session (UN/SCEGHS/6/INF.2 and INF.9). The Sub-Committee took notice 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 has been decided that the text for precautionary statements would be a revision of current Annex 3 of the GHS.

SCOPE OF WORK

- 7. Precautionary statements have been linked with the hazard classes and categories of the GHS. Harmonization of precautionary statements does not mean standardization of precautionary information, flexibility is allowed for the language and combination if words used by the manufacturer/user.
- 8. A harmonized set of common precautionary statements on the GHS label will form the basis of a mutual recognition of labelling between countries in order to allow the hazard communication elements of the existing systems to converge under GHS and at the same time improve the understanding and application of precautionary statements.
- 9. The proposed guidance is regarded as living document subject to further development and refinement. Whereas the set of statements as proposed in the table 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.

OPEN ISSUE

10. The experts from IPCS have raised the question of how to address the need for special treatment to counteract the specific effects of certain substances in case of acute intoxication. This topic should be dealt with as a separate issue subject to further careful and special elaboration. It is a matter for discussion among first-aid practitioners with experience of chemical poisoning to see what degree of consensus exists on the specific first aid for certain substances.

OUTLOOK

- 11. In order to facilitate the harmonized development of this guidance, the Sub-Committee should consider the advantage of a forum to convene related activities of IPCS/ICSC, ISO, ANSI, and other competent panels specifically engaged in the standardization of precautionary information both in the (M)SDS and the label statements.
- 12. The coding of precautionary statements has been left to further elaboration as efforts in this respect may be premature for the time being. Several codes exist in order to facilitate communication and translation. It seems to be highly desirable to develop an unified code in accordance with the GHS in progress.

PROPOSAL

i GHS paragraph 1.4.6.2:

Replace the fourth and fifth sentences with:

"A guidance to derive standardized precautionary information from GHS hazard statements is provided in Annex 3. It remains a goal that this guidance will be subject to a continuing process of further development."

ii GHS Annex 3:

Replace the current Annex 3, except A3.6, by the annex to this document.

The Sub-Committee is invited to discuss the results of the Correspondence Group on Precautionary Statements, to take notice of the remarks in paras. 10-12, and to decide on the proposal as deemed appropriate.

* * * * *

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Annex 3

(first revision, <date>)

PRECAUTIONARY STATEMENTS AND PRECAUTIONARY PICTOGRAMS

A3.1 Preface

This Annex contains a set of harmonized precautionary statements together with advice for their application. Precautionary statements form a set of elements that should be found on a GHS compliant label along with hazard statements. Supplemental information may be provided at the discretion of the manufacturer/distributor and/or regulator choice (Chapter 1.2). Information on *Directions for Use* provide one example of this type of information which is considered additional to the GHS label information.

A **Precautionary statement** is a phrase that describes recommended measures that should be taken to minimise 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), and the EU system of safety phrases associated with classification and labelling directives.

The annex includes five types of precautionary statements covering: **prevention**, **response** in cases of accidental spillage or exposure, **storage**, **disposal** and **reference**¹.. The development of the harmonized set of precautionary statements has been linked as far as possible to each GHS hazard statement and type of hazard.

The use of harmonized statements promotes a more consistent use of precautionary statements. 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 or a Table given in the annex enables the key concepts and approaches to be emphasized in training and education activities.

The system for assigning the phrases in the annex has been developed to provide the essential minimum phrases to link existing phrases with the GHS hazard classification criteria and type of hazard. As much redundancy as possible has been removed in the wording of existing phrases, simplifying 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 harmonized precautionary statements into the GHS will reinforce safe handling procedures. Clear plain and standardized language is necessary to convey instructions and enable their translation into languages other than English.

IPCS wishes to suggest a change in the column headed *Reference* so that it refers to *First-Aid*. Consequential changes to the matrix are being prepared to enable consideration of this change

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 fundamentally on the intrinsic properties of the chemicals involved (paragraph 1.3.2.2.1). However in certain circumstances of use e.g. consumer products, application of hazard statements may not be required if information shows that the respective risks can be excluded under conditions of normal handling, normal use or foreseeable misuse. If certain hazard statements are not required then the corresponding precautionary statements are also not necessary (paragraph A4.1.1).

A3.3 Allocation of Precautionary Statements

This Annex sets out a matrix or table for understanding the correct application of 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. An example of a general statement would be "Read directions/label/Safety Data Sheet before use".

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 and ignition sources and store in a cool well ventilated place".

A3.4 Structure of the Precautionary Statements

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.** In circumstances where flexibility and variation are appropriate these are denoted by use of a **virgule** [/], the phrase *such as* or the use of *italics*.

The inclusion of a virgule [/] indicates a choice can be made between the words they separate. In these cases the manufacturer or supplier can choose the most appropriate phrase, e.g. "in accordance with local/regional/national/international regulation".

Where the words "such as" appear in the matrix they denote the situations which should be specifically mentioned, e.g. "Keep away from ignition sources such as heat/sparks/open flame".

Where conditions appear in *italics* specific care should be used when considering the form and type of the substance. The phrases should be used if the conditions are met, e.g. physico-chemical properties, type of formulation, or specific applications.

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 mutually exclusive, e.g. the phrases for explosive hazard do not modify those related to certain health hazards. In other cases the type of hazard has a bearing on the immediate precautionary behaviour required. For example, a substance which is associated with the hazard statement *fatal if swallowed* will require a more rapid response in emergency that an acutely toxic substance associated with the hazard statement *may cause kidney damage through prolonged or repeated exposure*.

Special requirements exist for some intrinsic hazardous properties, e.g. carcinogenic, mutagenic and reproductive toxins where special permits or approvals issued at the national or local level may affect the precautionary behaviour needed.

Where a substance is classified according to a number of different types of health hazard, generally the most rapid and stringent set of precautionary statements will apply. This applies mainly for the preventive measures. 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. On the other hand, first aid and possible medical attention is required in cases of incidental exposure, even if not associated with immediate symptoms of intoxication.

To protect illiterate consumers it might be useful to include both phrases and pictograms for protective measures because information should be conveyed in more than one way (paragraph 1.4.4.1 (a)). It should be noticed, however, that the protective effect of pictograms is limited and the examples in Annex 3 do not cover all preventive aspects to be addressed.

<A3.5 Table Section>

<a3.6 Precautionary Pictograms > to be kept as it stands now.

EXPLOSIVES

(CHAPTER 2.1)

Hazard Category

Division 1.3 Division 1.2 Division 1.1

Signal Word

Danger Danger Danger

Hazard Statement

Explosive; severe projection hazard Explosive; fire, blast or projection hazard Explosive; mass explosion hazard

Exploding bomb Symbol



*

if likely to be used commercially.

receiving equipment. if material is for reloading. **Ground/Bond container and** ... appropriate material specified by the manufacturer. *if drying out increases explosion*

Example: nitrocelluloses

Keep wetted with ... Wear face protection. Do not subject to rough handling such as grinding/shock/friction.

Keep away from ignition sources such as heat/sparks/open flame. - No smoking.

** Evacuate area and fight fire ** Explosion risk in case of fire.

remotely.

Prevention

Response

Precautionary Statements

Storage

Disposal

Data Sheet before use.

** Read directions/label/Safety

Reference

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EXPLOSIVES (CHAPTER 2.1)

Division 1.4 Division 1.5 **Hazard Category** Warning Warning Signal Word Fire or projection hazard May explode in fire

Hazard Statement

Symbol None

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
Keep away from ignition sources such as heat/sparks/open flame No smoking. Do not subject to rough handling such as grinding/shock/friction.	** Explosion risk in case of major fire and large quantities. ** Evacuate area and fight fire remotely.			** Read directions/label/Safety Data Sheet before use.
Keep wetted with appropriate material specified by the manufacturer. if drying out increases explosion hazard. Example: nitrocelluloses				
Ground/Bond container and receiving equipment. if material is for reloading.				

if likely to be used commercially

FLAMMABLE GASES (CHAPTER 2.2)

Hazard Category Danger Signal Word **Hazard Statement**

Extremely flammable

gas	
	Flame

s leak		
Store in well-ventilated place.	Storage	Precautionary Statements
	Disposal	
** Read directions/label/Safety Data Sheet before use.	Reference	

	Precautionary Statements		
Response	Storage	Disposal	Refer
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.	Store in well-ventilated place.		** Read direction Data Sheet befor
Eliminate all ignition sources if safe to do so.			
general public.			

Keep away from ignition sources such as heat/sparks/open flame. - No smoking.

hazardous atmosphere:

** Use explosion-proof electrical/ventilating/ lighting/... equipment. ... other specified by the

manufacturer.

If product is as volatile as to generate

* Keep out of reach of children.

Prevention

* *

tools.

** Use only non-sparking

** Take precautionary measures against static discharge.

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Symbol

If likely to be used by the general public.

if likely to be used commercially.

FLAMMABLE GASES (CHAPTER 2.2)

Hazard Category Signal Word **Hazard Statement**

Symbol None

Flammable gas

Warning

* Keep out of reach of children. Keep away from ignition sources such as heat/sparks/open flame No smoking. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Store in well-ventilated place. Store in well-ventilated place.	Prevention Response Storage Disp	Precautionary Statements
	Disposal	
** Read directions/label/Safety Data Sheet before use.	Reference	

if likely to be used by the general public.

FLAMMABLE AEROSOLS (CHAPTER 2.3)

Hazard Category Danger Warning Signal Word

Extremely flammable aerosol Flammable aerosol **Hazard Statement**

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.		Protect from sunlight and do not	Dispose of this material and its	** Read directions/label/Safety
Pressurized container: Do not		exceeding 50 °C/122 °F.	in accordance with local/	Data Sneet perore use.
picice of builty even airci use.			regulation).	
Do not spray on a naked flame or any incandescent material.				
Keep away from ignition sources such as heat/sparks/open flame No smoking.				
* if likely to be used by the general public.	eneral public.			

if likely to be used by the general if likely to be used commercially.

Symbol Flame

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OXIDIZING GASES **(CHAPTER 2.4)**

Hazard Category

Signal Word

Danger

Hazard Statement

May cause or intensify fire; oxidizer

Symbol

Flame over circle



		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	In case of fire, stop leak if safe to Store in well-ventilated place.	Store in well-ventilated place.		** Read directions/label/Safety
Keep away from combustible materials.	uo so.			Data Silect Deloi e use.
** Keep reduction valves free from grease and oil.				
* if likely to be used by the general public.	general public.			
** if likely to be used commercially.	ercially.			

if likely to be used commercially.

GASES UNDER PRESSURE

(CHAPTER 2.5)

Compressed gas Liquefied gas Dissolved gas **Hazard Category** 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

Gas cylinder

Symbol

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likely t	
to be	
be used	
2	
the	
general	
public.	

* Keep out of reach of children.

Prevention

Response

Store in well-ventilated place.

Precautionary Statements

Storage

Disposal

Reference

** Read directions/label/Safety
Data Sheet before use.

if likely to be used commercially.

GASES UNDER PRESSURE (CHAPTER 2.5)

Wear cold insulating gloves/face shield/eye protection when operating pressure equipment. * Keep out of reach of children. Refrigerated liquefied gas **Hazard Category Prevention** clothes and skin with plenty of water before removing clothes. attention/advice. Seek immediate medical Do not rub affected area. Thaw frosted parts with likewarm water. IF ON SKIN OR CLOTHES: Rinse immediately contaminated Warning Signal Word Response Store in well-ventilated place. **Precautionary Statements** Storage cryogenic burns or injury Contains refrigerated gas; may cause **Hazard Statement** Disposal ** Read directions/label/Safety Data Sheet before use. Gas cylinder Reference Symbol

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

FLAMMABLE LIQUIDS

(CHAPTER 2.6)

321 **Hazard Category** Danger Danger Warning

Signal Word

Hazard Statement

Extremely flammable liquid and vapour Highly flammable liquid and vapour Flammable liquid and vapour

Symbol Flame

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	In case of fire, use for	Store in cool/well-ventilated	Dispose of this material and its	** Read directions/label/Safety
Keep container tightly closed.	 extinction. appropriate media specified by the manufacturer. 	place.	container to in accordance with local/ regional/national/international	Data Sneet before use.
Wear protective gloves. suitable material specified by the manufacturer.	if water increases risk.		regulation).	
Wear eye/face protection.				
Ground/Bond container and receiving equipment.				
if material is for <u>reloading</u> .				
If product is as volatile as to generate hazardous atmosphere: ** Use explosion-proof electrical/ventilating/				
lighting/ equipment. other specified by the manufacturer.				
** Take precautionary measures against static discharge. ** Use only non-sparking				

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

* *

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FLAMMABLE LIQUIDS (CHAPTER 2.6)

4	Hazard Category
Warning	Signal Word
Combustible liquid	Hazard Statement
WOLKE	Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	In case of fire, use for		Dispose of this material and its	** Read directions/label/Safety
Wear protective gloves. suitable material specified by the manufacturer.	appropriate media specified by the manufacturer. if water increases risk		in accordance with local/ regional/national/international regulation).	Pata Silect Beiole use.
Wear eye/face protection.				
Keep away from flames and hot surfaces.				
* if likely to be used by the general public	general public			

if likely to be used commercially.

FLAMMABLE SOLIDS

(CHAPTER 2.7)

Hazard Category

Signal Word

Danger Danger

Flammable solid Flammable solid

Hazard Statement

if likely to be used by the general public.

Ground/Bond container and receiving equipment. if material is for reloading.

if dust clouds can occur.

manufacturer.

... other specified by the

equipment.

** Use explosion-proof electrical/ventilating/lighting/...

such as heat/sparks/open flame. - No smoking. Keep away from ignition sources Wear eye/face protection.

manufacturer.

suitable material specified by the Wear protective gloves. * Keep out of reach of children.

In case of fire, use ... for extinction.

... appropriate media specified by the

manufacturer.

if water increases risk..

Prevention

Response

Precautionary Statements

Storage

Disposal

Data Sheet before use.

** Read directions/label/Safety

Reference

if likely to be used commercially.

* *

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Symbol Flame

SELF-REACTIVE SUBSTANCES (CHAPTER 2.8)

Туре А **Hazard Category**

Signal Word

Danger

Hazard Statement

Heating may cause an explosion

SymbolExploding bomb

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	** Explosion risk in case of fire.	Store in cool/well-ventilated	Dispose of this material and its	** Read directions/label/Safety
Wear protective gloves.	** Evacuate area and fight fire	Eace.	in accordance with local/	שנם טוופכר טפוטו כ עשכ.
suitable material specified by the	remotely.	Store at temperatures not	regional/national/international	
manufacturer.		exceeding °C/ °F.	regulation).	
	In case of fire, use for	specified by the manufacturer		
Wear eye/face protection.	extinction.			
Koon away from ignition courses	appropriate media specified by the	Store away from other materials.		
Neep away I oili igiiicioii sources	וומוועומרנעו כו .			
<pre>such as heat/sparks/open flame No smoking.</pre>	if water increases risk			
Keep away from				
the manufacturer.				
** Keep only in original				
* :0:::-::-:-:-:-:-::				

if likely to be used commercially.

SELF-REACTIVE SUBSTANCES

(CHAPTER 2.8)

Hazard Category

Туре В

Signal Word

Danger

Hazard Statement

Heating may cause a fire or explosion

Symbol

Exploding bomb and flame





Prevention Response	ISE	Storage	Disposal	Reference
* Keep out of reach of children.	case of fire.	Store in cool/well-ventilated	Dispose of this material and its	** Read directions/label/Safety
Wear protective gloves. $\stackrel{ }{ } **$ Evacuate area and fight fire	nd fight fire	place.	in accordance with local/	Data Sneet before use.
by the	,	Store at temperatures not	regional/national/international	
	ĵ	exceeding°C/°F.	regulation).	
Wear eye/face protection. extinction.				
appropriate media specified by the	specified by the	Store away from other materials.		
Keep away from ignition sources manufacturer.				
such as heat/sparks/open flame if water increases risk	?`			
Keep away from				
incompatible materials specified by the manufacturer.				
** Keep only in original				

if likely to be used commercially.

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

Type E Type F Type F	Hazard Category
Danger Danger Warning Warning	Signal Word
Heating may cause a lire Heating may cause a fire Heating may cause a fire Heating may cause a fire	Hazard Statement

	Symbol Flame
--	------------------------

Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	In case of fire, use for extinction.	Store in cool/well-ventilated	Dispose of this material and its container to	** Read directions/label/Safety Data Sheet before use.
Wear protective gloves.	appropriate media specified by the	1	in accordance with local/	
suitable material specified by the	manufacturer.	Store at temperatures not	regional/national/international	
manufacturer.	if water increases risk	exceeding °C/ °F specified by the manufacturer	regulation).	
Wear eye/face protection.				
,		Store away from other materials.		
Keep away from ignition sources				
such as heat/sparks/open flame				
No smoking.				
Keep away from incompatible materials specified by				
the manufacturer.				
** Keep only in original container.				

if likely to be used commercially.

PYROPHORIC LIQUIDS

(CHAPTER 2.9)

Hazard Category

Signal Word

Danger

Hazard Statement

Catches fire spontaneously if exposed to air

Symbol Flame

Disposal	Reference
	** Read directions/label/Safety Data Sheet before use.
<u>~</u>	osal

PYROPHORIC SOLIDS

(CHAPTER 2.10)

Hazard Category

Signal Word

Danger

Hazard Statement

Catches fire spontaneously if exposed to air

Symbol Flame

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
Do not allow contact with air.	In case of fire, use for extinction.	Store contents under appropriate liquid or inert gas		** Read directions/label/Safety Data Sheet before use.
Wear protective gloves. suitable material specified by the manufacturer.	appropriate media specified by the manufacturer. if water increases risk	specified by the manufacturer.		
Wear eye/face protection.				
Keep away from ignition sources such as heat/sparks/open flame No smoking.				
** if likely to be used commercially.	ercially.	_		

SELF-HEATING SUBSTANCES

(CHAPTER 2.11)

Hazard Category

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	Reference
Keep cool and protect from sunlight.		** Store away from other materials.		** Read directions/label/Safety Data Sheet before use.
		Character than		
suitable material specified by the		kg/lbs at temperatures not		
manufacturer.		exceeding°C/°F.		
		specified by the manufacturer		
Wear eye/face protection.				
		Maintain air gap between		
		stacks/pallets.		
** if likely to be used commercially.	ally.			-

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Symbol Flame

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

Hazard Category	Signal Word Danger	Hazard State In contact witl	tement ith water releases flammable	Symbol Flame
2 1	Danger Danger	In contact witl gases, whicl In contact witl	n contact with water releases flammable gases, which may ignite spontaneously contact with water releases flammable gas	*
2	Danger	In contact wit	In contact with water releases flammable gas	
		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
Keep from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas, protect from moisture.	In case of fire, use for extinction appropriate media specified by the manufacturer. if water increases risk	Store in a dry place and/or in closed container.	Dispose of this material and its container to in accordance with local/ regional/national/international regulation).	** Read directions/label/Safety Data Sheet before use.
Wear protective gloves. suitable material specified by the manufacturer.				
Wear eye/face protection.				

if likely to be used commercially.

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

Hazard Category Signal Word

Warning

ω

Hazard Statement

In contact with water releases flammable gas

Symbol Flame

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
Handle under inert gas, protect from moisture.	In case of fire, use for extinction.	Store in a dry place and/or in closed container.	Dispose of this material and its container to	** Read directions/label/Safety Data Sheet before use.
Wear protective gloves.	appropriate media specified by the manufacturer.		in accordance with local/ regional/national/international	
suitable material specified by the manufacturer.	if water increases risk		regulation).	
Wear eye/face protection.				
** if likely to be used commercially.	ercially.			

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OXIDIZING LIQUIDS (CHAPTER 2.13)

Hazard Category

Signal Word

Hazar

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Danger

Hazard Statement

Symbol

Flame over circle

May cause fire or explosion; strong oxidizer

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
Keep away from heat. Keep away from clothing and other combustible materials. Wear fire/flame resistant/retardant clothing.	** Explosion risk in case of major fire and large quantities. ** Evacuate area and fight fire remotely. In case of fire, use for extinction.	Store away from combustibles/ other incompatible materials specified by the manufacturer.	Dispose of this material and its container to in accordance with local/regional/ national/international regulation).	** Read directions/label/Safety Data Sheet before use.
Wear protective gloves. suitable material specified by the manufacturer.	appropriate media specified by the manufacturer. if water increases risk			
not umbust other in ecified	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.			
** if likely to be used commercially	ercially			

if likely to be used commercially.

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OXIDIZING LIQUIDS

(CHAPTER 2.13)

Hazard Category

ωΝ

Signal Word

Danger Warning

Hazard Statement

May intensify fire; oxidizer May intensify fire; oxidizer

Flame over circle Symbol

Prevention Response Storage Disposal	Disposal	Reference
* Keep out of reach of children. In case of fire, use for Store away from combustibles/ Container to		** Read directions/label/Safety Data Sheet before use.
te media specified by the other incompatible materials specified by the manufacturer.	in accordance with local/	Sam Clicar Balaia asc.
ases risk	regulation).	
Wear eye/face protection.		
Do not unintentionally mix with combustibles/ other incompatible materials specified by the manufacturer.		

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

OXIDIZING SOLIDS (CHAPTER 2.14)

Hazard Category

Signal Word

Danger

Hazard Statement

May cause fire or explosion; strong oxidizer

Symbol

Flame over circle



		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
Keep away from heat.	** Explosion risk in case of major fire and large quantities.	Store away from combustibles/ other incompatible materials	Dispose of this material and its container to	** Read directions/label/Safety Data Sheet before use.
Keep away from clothing and other combustible materials.	** Evacuate area and fight fire remotely.	specified by the manufacturer.	in accordance with local/ regional/national/international regulation).	
Wear fire/flame resistant/retardant clothing.	In case of fire, use for			
Wear protective gloves.	appropriate media specified by the			
manufacturer.	if water increases risk			
Wear eye/face protection.	IF ON CLOTHING: Rinse			
Do not unintentionally mix with combustibles/ other incompatible materials specified by the manufacturer.	clothing and skin with plenty of water before removing clothes.			
** if likely to be used commercially.	ercially.			

it likely to be used commercially.

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OXIDIZING SOLIDS

(CHAPTER 2.14)

ωΝ **Hazard Category**

Signal Word

Danger Warning

Hazard Statement



Flame over circle Symbol

\prec	\prec
y intensify fire;	y intensify fire;
fire;	fire;
oxidizer	oxidizer

May May

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*Keep out of reach of children. Keep away from heat. Wear protective gloves. suitable material specified by the manufacturer. Wear eye/face protection. Do not unintentionally mix with combustibles/ **Read directions/label/Safety container to if water increases risk. wear eye/face protection. Do not unintentionally mix with combustibles/ **Read directions/label/Safety container to other incompatible materials specified by the manufacturer. if water increases risk. if water incompatible materials and its container to in accordance with local/ regulation). if water incompatible materials and its container to in accordance with local/ regulation).	Prevention	Response	Storage	Disposal	Reference
appropriate media specified by the manufacturer. if water increases risk. other incompatible materials specified by the manufacturer. specified by the manufacturer. regional/national/international regulation).	* Keep out of reach of children.	In case of fire, use for	Store away from combustibles/	Dispose of this material and its	** Read directions/label/Safet
if water increases risk.	Keep away from heat.	appropriate media specified by the	. other incompatible materials	in accordance with local/	המנמ טוופכר מכוטוב משכ.
Wear eye/face protection. Do not unintentionally mix with combustibles/	Wear protective gloves. suitable material specified by the manufacturer.	if water increases risk.		regulation).	
Do not unintentionally mix with combustibles/ other incompatible materials	Wear eye/face protection.				
	Do not unintentionally mix with combustibles/				

- if likely to be used commercially.

ORGANIC PEROXIDES **(CHAPTER 2.15)**

Hazard Category

Туре А

Signal Word

Hazard Statement

SymbolExploding bomb

Danger

Heating may cause an explosion

Prevention	Response	Storage	Disposal	Reference
Keep away from ignition sources such as heat/sparks/open flame No smoking.		Store away from other materials. Store in cool place at	Dispose of this material and its container to in accordance with local/	** Read directions/label/Safety Data Sheet before use.
Keep away from incompatible materials specified by the manufacturer.		specified by the manufacturer	regulation).	
Wear protective gloves/clothing. suitable material specified by the manufacturer.		Protect from sunlight.		
Wear eye/face protection.				
** Keep only in original container.				

if likely to be used commercially.

ORGANIC PEROXIDES

(CHAPTER 2.15)

Hazard Category

Type B

Signal Word

Hazard Statement

Danger

Exploding bomb and flame over circle

Symbol



Heating may cause a fire or explosion

if likely to be used commercially.

Wear eye/face protection.

suitable material specified by the manufacturer. Wear protective gloves/clothing. container.

** Keep only in original

Protect from sunlight.

temperatures not exceeding ...°C/...°F. ... specified by the manufacturer

regional/national/international regulation).

... in accordance with local/

container to

Data Sheet before use.

** Read directions/label/Safety

Reference

Store in cool place at

Store away from other materials.

Dispose of this material and its

Disposal

Precautionary Statements

Storage

... incompatible materials specified by the manufacturer.

Keep away from

No smoking.

Keep away from ignition sources such as heat/sparks/open flame. -

Prevention

Response

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ORGANIC PEROXIDES **(CHAPTER 2.15)**

Hazard Category Danger Danger Warning Warning Signal Word **Hazard Statement**

Type C Type D Type E Type F

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

Flame over circle

Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
Keep away from ignition sources such as heat/sparks/open flame No smoking.		Store away from other materials. Store in cool place at temperatures not exceeding	Dispose of this material and its container to in accordance with local/regional/national/international	** Read directions/label/ Safety Data Sheet before use.
Keep away from incompatible materials specified by		°C/°F specified by the manufacturer	regulation).	
** Keep only in original		Protect from sunlight.		
** Keep only in original container.				
Wear protective gloves/clothing. suitable material specified by the manufacturer.				
Wear eye/face protection.				
** if likely to be used commercially.	cially.			

if likely to be used commercially.

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CORROSIVE TO METALS

(CHAPTER 2.16)

Hazard Category Warning Signal Word

Hazard Statement

May be corrosive to metals

Corrosion Symbol

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if likely to be used by the general public.

* Keep only in original container.

Absorb spillage to prevent material-damage.

Store in corrosive resistant/... container.
... other compatible materials specified by the manufacturer.

Prevention

Response

Precautionary Statements

Storage

Disposal

Reference

ACUTE TOXICITY - ORAL (CHAPTER 3.1)

Hazard Category Danger Danger Signal Word

Hazard Statement

Fatal if swallowed Fatal if swallowed

Skull and crossbones Symbol



		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF SWALLOWED: Immediately	* Store locked up.	Dispose of this material and its	** Read directions/label/
* Do not eat, drink or smoke	call a POISON CONTROL CENTER/doctor/physician.		container to in accordance with local/	Safety Data Sheet before use.
when using this product.			regional/national/international	Specific treatment is urgent (see
	Show container/label/Safety		regulation).	on this label)
 Wash hands thoroughly after handling. 	Data Sheet when possible.			reference to Supplemental First Aid Instruction.
•	Induce vomiting (if conscious).			if immediate administration of
Avoid all contact.	- if knowledge of the chemical			antidote is required.
	indicates this action is not			
	נטומ מוועותם נכם.			
	Give water/nothing to drink.			
	Give a slurry of activated charcoal			
	substance			
* if likely to be used by the general public	general public.		-	

if likely to be used commercially.

ACUTE TOXICITY - ORAL

(CHAPTER 3.1)

Hazard Category

Signal Word

Danger

Hazard Statement

Toxic if swallowed

Skull and crossbones Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF SWALLOWED: Immediately	* Store locked up.	Dispose of this material and its	** Read directions/label/Safety
* Do not eat, drink or smoke	CENTER/doctor/physician.		in accordance with local/	
when using this product.	Show container/label/Safety		regional/national/international regulation).	Specific treatment is urgent (see on this label)
* Wash hands thoroughly after handling.	Data Sheet when possible.			reference to Supplemental First Aid Instruction.
	Give water/nothing to drink.			if immediate administration of antidote is required.
	Induce vomiting (if conscious). - if knowledge of the chemical			
	contraindicated.			

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

ACUTE TOXICITY – ORAL

(CHAPTER 3.1)

Hazard Category Warning Signal Word

Hazard Statement

Harmful if swallowed

Exclamation mark Symbol

Precautionary Statements	v	
Storage	Disposal	Reference
POISON	Dispose of this material and its	** Read directions/label/
ctor/	container to	Safety Data Sheet before use.
	in accordance with local/	
	regional/national/international	
/Safety	regulation).	
ible.		
drink.		
_ w_ = n w	Response Storage IF SWALLOWED: Call a POISON CONTROL CENTER/doctor/ physician. Show container/label/Safety Data Sheet when possible. Give water/nothing to drink.	Precautionary Statements Storage

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

ACUTE TOXICITY - ORAL

(CHAPTER 3.1)

Keep out of reach of children. 5 **Hazard Category Prevention** Show container/label/Safety Data Sheet when possible. Call a POISON CONTROL CENTER/doctor/physician if you feel unwell. Warning Signal Word Response **Precautionary Statements** Storage May be harmful if swallowed **Hazard Statement** Disposal Read label before use. Reference Symbol None

This Hazard Category may be used in some countries for products likely to be used by the general public.

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ACUTE TOXICITY – DERMAL (CHAPTER 3.1)

Hazard Category Danger Danger Signal Word

Hazard Statement

Fatal in contact with skin Fatal in contact with skin

Skull and crossbones Symbol

	Response Storage
Response	TEON CKIN: Wash with plants of * Store looked in
en. IF ON SKIN: Wash with plenty of * Store locked up.	soap and water/ Store locked up. Container to container to
ufacturer.	appropriate cleansing agent in accordance with local/ regional/national/international
* Wash hands thoroughly after Remove/Take off immediately all handling.	ands thoroughly after Remove/Take off immediately all contaminated clothing.
Avoid all contact. Call a POISON CONTROL CENTER/doctor/physician.	
suitable material specified by the manufacturer. Show container/label/Safety Manufacturer. Show container/label/Safety	
Wash/Decontaminate removed	Wash/Decontaminate removed

if likely to be used commercially.

ACUTE TOXICITY – DERMAL (CHAPTER 3.1)

Hazard Category Signal Word

Danger

ω

Hazard Statement

Toxic in contact with skin

Skull and crossbones Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF ON SKIN: Wash with plenty of soap and water/	* Store locked up.	Dispose of this material and its container to	** Read directions/label/Safety Data Sheet before use.
Wear protective gloves/clothing. suitable material specified by the	appropriate cleansing agent specified by the manufacturer.		in accordance with local/ regional/national/international	Specific treatment is urgent (see
mandiacwici.	Remove/Take off immediately all contaminated clothing.		regulation),	reference to Supplemental First Aid Instruction.
	Call a POISON CONTROL CENTER/doctor/physician if you feel unwell.			antidote is required.
	Show container/label/Safety Data Sheet when possible.			
	Wash/Decontaminate removed clothing before reuse.			
* if likely to be used by the general public.	general public.			
** if likely to be used commercially	nercially.			

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

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ACUTE TOXICITY – DERMAL (CHAPTER 3.1)

Hazard Category Warning Signal Word

Hazard Statement

Harmful in contact with skin

-	Exclamation r
	mar

Symbol

Precautionary Statements	ts	
Prevention Response Storage	Disposal	Reference
* Keep out of reach of children. Wear protective gloves/clothing. soap and water/ appropriate cleansing agent specified by the manufacturer. Call a POISON CONTROL CENTER/doctor/physician if you feel unwell. Show container/label/Safety Data Sheet when possible. Wash contaminated clothing before reuse.	Dispose of this material and its container to in accordance with local/ regional/national/international regulation).	** Read directions/label/Safety Data Sheet before use.
* if likely to be used by the general public.		

if likely to be used commercially.

* *

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ACUTE TOXICITY – DERMAL

(CHAPTER 3.1)

Ф Wear protective gloves. Keep out of reach of children. Hazard Category **Prevention** Call a POISON CONTROL CENTER/doctor/physician if you feel unwell. Warning Signal Word Response **Precautionary Statements** Storage May be harmful in contact with skin **Hazard Statement** Disposal Read label before use. Reference Symbol None

This Hazard Category may be used in some countries for products likely to be used by the general public.

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ACUTE TOXICITY – INHALATION (CHAPTER 3.1)

Hazard Category Danger Danger

Signal Word Fatal if inhaled Fatal if inhaled **Hazard Statement**

Skull and crossbones Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF INHALED:	* Store locked up.		** Read directions/label/Safety
Do not broatho diist/filmo/gas/	Remove victim to fresh air and	Store container tightly closed in		Data Sheet before use.
mist/vapours/spray.	אפכף מרוכזי.	well-ventilated place.		Specific treatment is urgent (see
	Keep in half-upright position if	if product is as volatile as to generate		on this label)
Use appropriate ventilation.	breathing is difficult.	hazrdous atmosphere.		reference to Supplemental First Aid
Wear respiratory protection.	Immediately call a POISON			if immediate administration of
as specified by the manufacturer.	physician.			antidote is required.
	Show container/ label/Safety Data Sheet when possible.			
* .61.1.11				

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

ACUTE TOXICITY – INHALATION

(CHAPTER 3.1)

Hazard Category Signal Word

Danger

Hazard Statement

Toxic if inhaled

Skull and crossbones Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF INHALED:	* Store locked up.		** Read directions/label/Safety
Use appropriate ventilation.	Remove to fresh air and keep at rest.	Store container tightly closed in		Data Sheet before use.
		well-ventilated place.		Specific treatment is urgent (see
Avoid breathing dust/fume/	Keep in half-upright position if	if product is as volatile as to generate		on this label)
gas/mist/vapours/spray.	breathing is difficult.	hazrdous atmosphere.		reference to Supplemental First Aid
	Immediately call a POISON			if immediate administration of
	CONTROL CENTER/doctor/ physician.			antidote is required.
	Show container/label/Safety Data Sheet when possible.			

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

ACUTE TOXICITY – INHALATION (CHAPTER 3.1)

Hazard Category Warning Signal Word Harmful if inhaled

Hazard Statement

Exclamation mark Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF INHALED:			** Read directions/label/Safety Data
Use appropriate ventilation.	Remove to fresh air and keep at rest.			Sheet before use.
me/	Keep in half-upright position if breathing is difficult.			
gas/mist/vapours/spray. C:	Call a POISON CONTROL CENTER/doctor/physician.			
Sh	Show container/label/Safety Data Sheet when possible.			

if likely to be used commercially.

ACUTE TOXICITY – INHALATION

(CHAPTER 3.1)

5 Use appropriate ventilation. Keep out of reach of children. **Hazard Category Prevention** Call a POISON CONTROL CENTER/doctor/physician if you feel unwell. Show container/label/Safety Data Sheet when possible. Warning Signal Word Response **Precautionary Statements** Storage May be harmful if inhaled **Hazard Statement** Disposal Read label before use. Reference Symbol None

This Hazard Category may be used in some countries for products likely to be used by the general public.

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SKIN CORROSION/IRRITATION (CHAPTER 3.2)

Hazard Category

1A to 1C

Signal Word

Danger

Hazard Statement

Causes severe skin burns and eye damage

SymbolCorrosion

	Pr	Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF ON SKIN: Remove/Take off immediately all contaminated clothing	* Store locked up.	Dispose of this material and its container to	** Read directions/label/Safety Data Sheet before use.
Wear protective gloves/clothing. suitable material specified by the	under the shower and wash skin with plenty of soap and water/		in accordance with local/ regional/national/international	Specific treatment is urgent (see
manufacturer.	other cleansing agent specified by the manufacturer.		regulation).	on this label) reference to Supplemental First Aid
Wear eye/face protection.				Instruction.
Wash thoroughly after handling.	IF IN EYES: Hold eyes open and rinse cautiously with water for several			If immediate administration of antidote is required.
Do not breathe dust or mist. if inhalable particles may occur during	present and easy to do. Continue rinsing.			
use	IF SWALLOWED: Rinse mouth.			
	Do NOT induce vomiting.			
	IF INHALED: Remove to fresh air.			
	Keep at rest in half-upright position if breathing is difficult.			
	Call a POISON CONTROL CENTER/doctor/physician.			
	Show container/label/Safety Data Sheet when possible.			
* :£1:1-1-4-111-411:				

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

SKIN CORROSION/IRRITATION

Prevention			2	Hazard Category	
Response			Warning	Signal Word	
Storage	Precautionary Statements		Causes skin irri	Hazard State	(CHAPTER 3.2)
Disposal			tation	ment	
Reference		• •••	EXCIdITIATION	Symbol	
	Response Storage Disposal	Precautionary Statements Response Storage Disposal	Precautionary Statements Response Storage Disposal	Prevention Response Causes skin irritation Precautionary Statements Disposal	Interpretation Signal Word Hazard Statement Exc Warning Causes skin irritation Precautionary Statements Prevention Response Storage Disposal

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

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SKIN CORROSION/IRRITATION (CHAPTER 3.2)

Reference Read label before use.	Disposal	Precautionary Statements Storage	Response If skin irritation occurs, get medical advice/attention. Show container/label/Safety Data Sheet when possible.	Prevention Avoid prolonged/repeated contact with skin.
, work	kin irritation	Causes mild skin irritation	Warning	ω
Symbol	ment	Hazard State	Signal Word	Hazard Category

EYE DAMAGE/IRRITATION

(CHAPTER 3.3)

Hazard Category Danger Signal Word Causes serious eye damage **Hazard Statement**

Corrosion Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children. Wear eye/face protection.	IF IN EYES: Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			** Read directions/label/Safety Data Sheet before use.
	Call a POISON CONTROL CENTER/doctor/physician. Show container/label/Safety Data Sheet when possible.			
* if likely to be used by the general public.	general public.			

if likely to be used commercially.

EYE DAMAGE/IRRITATION (CHAPTER 3.3)

2A * Keep out of reach of children. **Hazard Category** Prevention IF IN EYES: Hold eyes open and rinse cautiously with water for several minutes. Remove contact Show container/label/Safety Data Sheet when possible. If eye irritation persists, get medical advice/attention. lenses, if present and easy to do. Continue rinsing. Signal Word Warning Response **Precautionary Statements** Storage Causes serious eye irritation **Hazard Statement** Disposal ** Read directions/label/Safety
Data Sheet before use. **Exclamation mark** Reference Symbol

* *

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

EYE DAMAGE/IRRITATION

(CHAPTER 3.3)

	If eye irritation persists, get medical advice/attention. Show container/label/Safety Data Sheet when possible.	
	If eye irritation persists, get medical advice/attention.	
	IF IN EYES: Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	* Keep out of reach of children.
Storage Disposal	Response	Prevention
autionary Statements	Prec	
Causes eye irritation	Warning	28
Hazard Statement	Signal Word	Hazard Category
05	irritation	Hazard Statement Causes eye irritation Precautionary Statements Storage

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SENSITIZATION - RESPIRATORY **(CHAPTER 3.4)**

Hazard Category

Signal Word

Hazard Statement

Danger

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Health hazard Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF INHALED: If breathing is		Dispose of this material and its	** Read directions/label/Safety
ie/	keep at rest in half-upright		in accordance with local/	Data Sneet before use.
In case of inadequate ventilation C	Call a POISON CONTROL		regulation).	
suitable type specified by the manufacturer.	Show container/label/Safety Data Sheet when possible.			
* if likely to be used by the general public	neral public			

if likely to be used commercially.

SENSITIZATION - SKIN

(CHAPTER 3.4)

Hazard Category Warning Signal Word May cause an allergic skin reaction **Hazard Statement**

Exclamation mark

Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF ON SKIN: Wash with plenty of soap and water/			** Read directions/label/Safety Data Sheet before use.
Wear protective gloves.	other cleansing agent specified by			
suitable material specified by the manufacturer.	the manufacturer.			
	If skin irritation occurs, seek			
Avoid breathing dust/fume/	medical advice/attention.			
gas/mist/vapours/spray.				
,	Show container/label/Safety			
** Contaminated work clothing should not be allowed out of the	Data Sheet when possible.			
workplace.	Wash contaminated clothing			
	before reuse.			
* if likely to be used by the general public.	general public.			
** if libals to be used commercially	pero i all vi			

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

GERM CELL MUTAGENICITY (CHAPTER 3.5)

2 1 **Hazard Category** Danger Warning Signal Word

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.)

Health hazard Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF ANY CONTACT: Get medical attention/advice.	* Store locked up.	Dispose of this material and its container to	Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.	Show container/label/Safety Data Sheet when possible.		in accordance with local/ regional/national/international regulation).	
Avoid all contact.				
Use Personal Protective Equipment as required.				
* if libely to be used by the general nublic	general public			

if likely to be used by the general public.

CARCINOGENICITY

(CHAPTER 3.6)

Hazard Category

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

Symbol

Precautionary Statements routes of exposure cause the hazard.)

Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid all contact. Use Personal Protective	IF ANY CONTACT: Get medical attention/advice. Show container/label/Safety Data Sheet when possible.	* Store locked up.	Dispose of this material and its container to in accordance with local/ regional/national/international regulation).	Obtain special instructions before use.
	Concel public			
* if likely to be used by the general nublic	general muhlic			

if likely to be used by the general public.

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TOXIC TO REPRODUCTION (CHAPTER 3.7)

Hazard Category Danger Warning Signal Word

Hazard Statement

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

(state specific effect if known)

Health Hazard Symbol

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

Precau	
itionary	
/ State	
ments	

		•		
Prevention R	Response	Storage	Disposal	Reference
?	IF ANY CONTACT: Get medical attention/advice.	* Store locked up.	Dispose of this material and its container to	Obtain special instructions before use.
precautions have been read and understood. Show container/label/Saf	Show container/label/Safety Data Sheet when possible.		regional/national/international regulation).	
Avoid all contact.				

if likely to be used by the general public.

TOXIC TO REPRODUCTION

(CHAPTER 3.7) (EFFECTS ON OR VIA LACTATION)

gory Signal Word Hazard Statement		
-----------------------------------	--	--

(additional) **Hazard Cat** No signal word May cause harm to breast-fed children Symbol None

* if likely to be used by the general public.	Do not breathe dust or mist. if inhalable particles may occur during use	* Wash hands thoroughly after handling.	* Do not eat, drink or smoke when using this product.	Avoid contact during pregnancy/while nursing.	Prevention	
general public.			Show container/label/Safety Data Sheet when possible.	IF ANY CONTACT: Get medical attention/advice.	Response	
					Storage	Precautionary Statements
					Disposal	
				Obtain special instructions before use.	Reference	

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TARGET ORGAN SYSTEMIC TOXICITY (Single Exposure) **(CHAPTER 3.8)**

Hazard Category Danger Signal Word Causes damage to <...> if <<...>> **Hazard Statement** Health Hazard Symbol

^ : V

(state all organs affected, or use a general statement where there is no definite evidence that other organs

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

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children.	IF SWALLOWED: Immediately	* Store locked up.	Dispose of this material and its	** Read directions/label/Safety
* Do not eat, drink or smoke	call a POISON CONTROL CENTER/doctor/physician.		container to in accordance with local/	Data Sheet before use.
when using this product.			regional/national/international	Specific treatment is urgent (see
	Show container/label/Safety		regulation).	on this label)
* Wash hands thoroughly after	Data Sheet when possible.			reference to Supplemental First Aid
1	Induce vomiting (if conscious).			if immediate administration of
Avoid all contact.	 if knowledge of the chemical indicates this action is not 			antidote is required.
Do not breathe dust or mist.	contraindicated.			
if inhalable particles may occur during				
se.				
* if likely to be used by the general nublic	general nublic			

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

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

Do not breathe dust or mist. *if inhalable particles may occur during* * Wash hands thoroughly after * Do not eat, drink or smoke when using this product. * Keep out of reach of children. **Hazard Category Prevention** Show container/label/Safety Data Sheet when possible. Call a POISON CONTROL CENTER/doctor/physician if you feel unwell. Warning Signal Word Response <<...>> (state route of exposure if it is conclusively proven that May cause damage to <...> if <<...>> **Hazard Statement Precautionary Statements** are not effected.) where there is no definite evidence that other organs no other routes of exposure cause the hazard., (state all organs affected, or use a general statement Storage regulation). regional/national/international ... in accordance with local/ container to ... Dispose of this material and its Disposa Data Sheet before use. ** Read directions/label/Safety Health hazard Reference Symbol

* *

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if likely to be used by the general public.

if likely to be used commercially.

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

Hazard Category Signal Word **Hazard Statement**

Danger

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

^^...V

Health Hazard Symbol

(state all organs affected, or use a general statement where there is no definite evidence that other organs

<<...>> (state route of exposure if it is conclusively proven that are not effected.) no other routes of exposure cause the hazard.)



Precautionary Statements

		riecautioliai y Statellielits		
Prevention	Response	Storage	Disposal	Reference
* Keep out of reach of children. Avoid all contact.	Get medical attention/advice if you feel unwell.		Dispose of this material and its container to in accordance with local/	** Read directions/label/Safety Data Sheet before use.
* Do not eat, drink or smoke when using this product.	Data Sheet when possible.		regulation).	
* Wash hands thoroughly after handling.				
Do not breathe dust or mist. if inhalable particles may occur during use.				

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

* * *

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

	regulation).		Data Sheet when possible.	Do not breathe dust or mist.
	regional/national/international		Show container/label/Safety	
צמנמ טוופכר צכוטו כ מסכי	in accordance with local/		Jon Icci aliwell.	Avoid all contact.
** Read directions/label/Safety	Dispose of this material and its		Get medical attention/advice if	* Keep out of reach of children.
Reference	Disposal	Storage	Response	Prevention
		Precautionary Statements		
	of exposure cause the hazard.)	that no other routes or		
	(state route of exposure if it is conclusively proven	<<>> (state route of exposu		
		are not effected.)		
•	where there is no definite evidence that other organs	where there is no defii		
•	(state all organs affected, or use a general statement	<> (state all organs affect		
•		exposure <<>>		
	h prolonged or repeated	May cause <> damage through prolonged or repeated	Warning	2
Health hazard				
Symbol		Hazard Statement	Signal Word	Hazard Category

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

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AQUATIC ENVIRONMENT - ACUTE HAZARD **(CHAPTER 3.10)**

Hazard Category Warning Signal Word

Hazard Statement

Very toxic to aquatic life

Environment Symbol



Prevention Response Storage Disposal Reference
Do not contaminate surface Collect spillage. ** Read directions/label/Safety container to in accordance with local/ regional/national/international regulation). ** Read directions/label/Safety ** Read directions/label/Safety

AQUATIC ENVIRONMENT - ACUTE HAZARD

(CHAPTER 3.10)

if likely to be used by the generalif likely to be used commercially.		Prevention		ω ν	Hazard Category
if likely to be used by the general public. if likely to be used commercially.		Response		Warning <i>No signal word</i>	Signal Word
		Storage	Precautionary Statements	Toxic to aquatic life Harmful to aquatic life	Hazard Statement
	Dispose of this material and its container to in accordance with local/ regional/national/international regulation).	Disposal		tic life uatic life	ement
	* ** Read directions/label/Safety Data Sheet before use.	Reference			Symbol None

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AQUATIC ENVIRONMENT - CHRONIC HAZARD (CHAPTER 3.10)

Hazard Category Warning Warning Signal Word **Hazard Statement**

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

Environment Symbol

		Precautionary Statements		
Prevention	Response	Storage	Disposal	Reference
Do not contaminate surface water.	Collect spillage.		Dispose of this material and its container to in accordance with local/ regional/national/international regulation).	* ** Read directions/label/Safety Data Sheet before use.
* if likely to be used by the general public.	general public.			
** if likely to be used commercially.	ercially.			

if likely to be used commercially.

AQUATIC ENVIRONMENT - CHRONIC HAZARD

(CHAPTER 3.10)

* if likely to be used by the general public. ** if likely to be used commercially.		Prevention	Precautionary Statements		. 4	J	Hazard Category
general public. ercially.		Response			No signal word		Signal Word
		Storage		May cause lon aquatic life	Harmiul to aq effects		Hazard State
	Dispose of this material and its container to in accordance with local/ regional/national/international regulation).	Disposal		May cause long lasting harmful effects to aquatic life	Harmful to aquatic life with long lasting effects		tement
	* ** Read directions/label/Safety Data Sheet before use.	Reference				None	Symbol

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