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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</u> <u>System of Classification and Labelling of Chemicals</u> (Second session, 12 -14 December 2001, agenda item 3)

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)

Annexes 1 and 2

Transmitted by the Inter-Organization Programme for the Sound Management of Chemicals (IOMC)

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Annex 1

Definitions and abbreviations

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Definitions and abbreviations

"ADR" means the European Agreement concerning the International Carriage of Dangerous Goods by Road (United Nations publication ECE/TRANS/140 (Vol. I and II)).

"Aerosols": Aerosols are any non-refillable receptacles made of metal, glass or plastics and containing a gas compressed, liquefied or dissolved under pressure, with or without a liquid, paste or powder, and fitted with a release device allowing the contents to be ejected as solid or liquid particles in suspension in a gas, as a foam, paste or powder or in a liquid state or in a gaseous state. Aerosol includes aerosol dispensers.

"Alloy": An alloy is a metallic material, homogeneous on a macroscopic scale, consisting of two or more elements so combined that they cannot be readily separated by mechanical means. Alloys are considered to be mixtures for the purpose of classification under the GHS.

"ASTM" means the "American Society of Testing and Materials".

"BCF" means "bioconcentraion factor".

"BOD/COD" means "biochemical oxygen demand/chemical oxygen demand".

"CA" means "competent authority".

"Carcinogen": Carcinogen means a chemical substance or a mixture of chemical substances which induce cancer or increase its incidence.

"CAS" means "Chemical Abstract Service".

"CBI" means "confidential business information".

"Chemical identity": Chemical identity means a name that will uniquely identify a chemical. This can be a name that is in accordance with the nomenclature systems of the International Union of Pure and Applied Chemistry (IUPAC) or the Chemical Abstracts Service (CAS), or a technical name.

"Compressed gas": A gas which when packaged under pressure is entirely gaseous at -50 °C; including all gases with a critical temperature \leq -50 °C.

"Contact sensitizer": A contact sensitizer is a substance that will induce an allergic response following skin contact.

"Corrosive to metal": A substance or a mixture that is corrosive to metal is a substance or a mixture which by chemical action will materially damage, or even destroy, metals.

"Critical temperature" is the temperature above which a pure gas cannot be liquefied, regardless of the degree of compression.

"Dermal Corrosion": Dermal Corrosion is the production of irreversible damage to the skin; namely, visible necrosis through the epidermis and into the epidermis, following the application of a test substance for up to 4 hours.

"Dermal irritation": Dermal Irritation is the production of reversible damage to the skin following the application of a test substance for up to 4 hours.

"DIN" means "drug identification number".

"Dissolved gas": A gas which when packaged under pressure is dissolved in a liquid phase solvent.

" EC_{50} " means the effective concentration of drug that causes 50% of the maximum response.

"ECOSOC" means the Economic and Social Council of the United Nations.

"EINECS" means "European Inventory of Existing Commercial Chemical Substances".

"ErC₅₀" means EC₅₀ in terms of reduction of growth rate.

"EU" means "European Union".

"Explosive article": An article containing one or more explosive substances.

"Explosive substance": A solid or liquid substance (or mixture of substances) which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic substances are included even when they do not evolve gases.

"Eye corrosion": Eye corrosion is the production of tissue damage in the eye, or serious physical decay of vision, following application of a test substance to the anterior surface of the eye, which is not fully reversible within 21 days of application.

"Eye irritation": Eye irritation is the production of changes in the eye following the application of test substance to the anterior surface of the eye, which are fully reversible within 21 days of application.

"Flammable gas": A gas having a flammable range with air at 20 °C and a standard pressure of 101.3 kPa.

"Flammable liquid": A flammable liquid means a liquid having a flash point of not more than 93 °C.

"Flammable solid": A flammable solid is a solid which is readily combustible, or may cause or contribute to fire through friction.

"Flash point" means the lowest temperature (corrected to a standard pressure of 101.3 kPa) at which the application of an ignition source causes the vapours of a liquid to ignite under specified test conditions.

"Gas" means a substance which (a) at 50°C has a vapour pressure greater than 300 kPa; or (b) is completely gaseous at 20°C at a standard pressure of 101.3 kPa.

"GESAMP" means "The Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection".

"GHS" means "The Globally Harmonized System for Hazard Classification and Communication".

"Hazard category": This is the term used in the document to describe the division of criteria within each hazard class i.e. oral acute toxicity has five hazard categories and flammable liquids has four hazard categories. These compare hazard severity within a hazard class and should not be taken as a comparison of hazard categories more generally.

"Hazard class": This is the term used in the document to describe the nature of the physical, health or environmental hazard i.e. carcinogen, flammable solid, oral acute toxicity.

"Hazard statement": A hazard statement means a phrase assigned to a hazard class and category that describes the nature of the hazards of a hazardous product, including, where appropriate, the degree of hazard.

"IARC" means the "International Agency for the Research on Cancer".

"IMO" means the "International Maritime Organization".

"Initial boiling point" means the temperature of a liquid at which its vapour pressure is equal to the standard pressure (101.3 kPa), i.e. the first gas bubble appears.

"IOMC" means the "Interorganization Programme on the Sound Management of Chemicals"

"IPCS" means the "International Programme on Chemical Safety".

"IUPAC" means the "International Union of Pure and Applied Chemistry".

"Label": A label means an appropriate group of written, printed or graphic information elements concerning a hazardous product, selected as relevant to the target sector(s), that is affixed to, printed on, or attached to the immediate container of a hazardous product, or to the outside packaging of the hazardous product.

"Label element": A label element means one type of information that has been harmonized for use in a label, e.g. pictogram, signal word.

" LC_{50} " means the concentration of a material in air which causes the death of 50% (one half) of a group of test animals.

" LD_{50} " means the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

"L(E)C₅₀" means LC₅₀ or EC₅₀.

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"Liquefied gas": A gas which when packaged under pressure, is partially liquid at temperatures above – 50 °C. A distinction is made between:

- (i) High pressure liquefied gas: a gas with a critical temperature between -50°C and +65°C; and
- (ii) Low pressure liquefied gas: a gas with a critical temperature above +65°C.

"Liquid" means a substance which at 50 °C has a vapour pressure of not more than 300 kPa (3 bar), which is not completely gaseous at 20 °C and at a standard pressure of 101.3 kPa, and which has a melting point or initial melting point of 20 °C or less at a standard pressure of 101.3 kPa. A viscous substance for which a specific melting point cannot be determined shall be subjected to the ASTM D 4359-90 test; or to the test for determining fluidity (penetrometer test) prescribed in section 2.3.4 of Annex A of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)¹.

United Nations publication: ECE/TRANS/140.

"Manual of Tests and Criteria" is the third revised edition of the United Nations publication entitled "Recommendations on the Transport of Dangerous goods, Manual of Tests and Criteria" (ST/SG/AC.10/11/Rev.3).

"MARPOL" means the "International Convention for the Prevention of Pollution from Ships".

"Mixture": Mixtures or solutions composed of two or more substances in which they do not react.

"Mutagen" means an agent giving rise to an increased occurrence of mutations in populations of cells and /or organisms.

"NGO" means "non-governmental organization".

"NOEC" means the "no observed effect concentration".

"OECD" means "The Organization for Economic Cooperation and Development".

"OSHA" means "The Occupational Safety and Health Administration".

"Organic peroxides": organic peroxides are liquid or solid organic substances which contain the bivalent -0-0- structure and may be considered derivatives of hydrogen peroxide, where one or both of the hydrogen atoms have been replaced by organic radicals.

"Oxidizing gas": An oxidizing gas is any gas which may, generally by providing oxygen, cause or contribute to the combustion of other material more than air does.

"Oxidizing liquid": An oxidizing liquid is a liquid which, while in itself not necessarily combustible, may, generally by yielding oxygen, cause, or contribute to, the combustion of other material.

"Oxidizing solid": An oxidizing solid is a solid which, while in itself not necessarily combustible, may, generally by yielding oxygen, cause, or contribute to, the combustion of other material.

"QSAR" means "quantitative structure-activity relationships".

"PIC" means "prior informed consent".

"Pictogram": A pictogram means a composition that may include a symbol plus other graphic elements, such as a border, background pattern or colour that is intended to convey specific information.

"Precautionary statement": A precautionary statement means a phrase (and/or pictogram) that describes recommended measures that should be taken to minimize or prevent adverse effects resulting from exposure to a hazardous product, or improper storage or handling of a hazardous product.

"Product identifier": A product identifier means the name or number used for a hazardous product on a label or in the SDS. It provides a unique means by which the product user can identify the substance or mixture within the particular use setting e.g. transport, consumer or workplace.

"Pyrophoric liquid": A pyrophoric liquid is a liquid which, even in small quantities, is liable to ignite within five minutes after coming into contact with air.

"Pyrophoric solid": A pyrophoric solid is a solid which, even in small quantities, is liable to ignite within five minutes after coming into contact with air.

"Pyrotechnic article": An article containing one or more pyrotechnic substances.

"Pyrotechnic substance": A substance or mixture of substances designed to produce an effect by heat, light, sound, gas or smoke or a combination of these as the result of non-detonative self-sustaining exothermic chemical reactions.

"Readily combustible solid": Readily combustible solids are powdered, granular, or pasty substances which are dangerous if they can be easily ignited by brief contact with an ignition source, such as a burning match, and if the flame spreads rapidly.

"Refrigerated liquefied gas": A gas which when packaged is made partially liquid because of its low temperature.

"Respiratory Sensitizer": A respiratory sensitizer is a substance that will induce hypersensitivity of the airways following inhalation of the substance.

"RID" means Regulations concerning the International Carriage of Dangerous Goods by Rail [Annex 1 to Appendix B (Uniform Rules concerning the Contract for International Carriage of Goods by Rail) (CIM) of COTIF (Convention concerning international carriage by rail)]

"SAR" means "structure activity relationship".

"SDS" means "safety data sheet".

"Self-accelerating decomposition temeprature (SADT)" means the lowest temperature at which selfaccelerating decomposition may occur with substance as packaged.

"Self-heating substance": A self-heating substance is a solid or liquid substance, other than a pyrophoric substance, which, by reaction with air and without energy supply, is liable to self-heat; this substance differs from a pyrophoric substance in that it will ignite only when in large amounts (kilograms) and after long periods of time (hours or days).

"Self-reactive substance": Self-reactive substances are thermally unstable liquid or solid substances liable to undergo a strongly exothermic decomposition even without participation of oxygen (air). This definition excludes substances or mixtures classified under the GHS as explosive, organic peroxides or as oxidizing.

"Signal word": A signal word means a word used to indicate the relative level of severity of hazard and alert the reader to a potential hazard on the label. The GHS uses 'Danger' and 'Warning'.

"Solids" are substances which do not meet the definitions of liquids or gases.

"SPR" means "structure property relationship".

"Substance": Chemical elements and their compounds in the natural state or obtained by any production process, including any additive necessary to preserve the stability of the product and any impurities deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition.

"Substances which, in contact with water, emit flammable gases" are solid or liquid substances which, by interaction with water, are liable to become spontaneously flammable or to give off flammable gases in dangerous quantities.

"Supplemental label element": A supplemental label element means any additional non-harmonized type of information supplied on the container of a hazardous product that is not required or specified under the GHS. In some cases this information may be required by other competent authorities or it may be additional information provided at the discretion of the manufacturer/distributor.

"Symbol": A symbol means a graphical element intended to succinctly convey information.

"Technical name": A name that is generally used in commerce, regulations and codes to identify a substance or mixture, other than the IUPAC or CAS name, and that is recognized by the scientific community. Examples of technical names include those used for complex mixtures (e.g., petroleum fractions or natural products), pesticides (e.g., ISO or ANSI systems), dyestuffs (Colour Index system) and minerals.

"UNCED" means the "United Nation Conference on Environment and Development".

"UNCETDG/GHS" means the United Nations Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

"UN Model Regulations" means the Model Regulations annexed to the twelfth revised edition of the Recommendations on the Transport of Dangerous Goods published by the United Nations (ST/SG/AC.10/1/Rev.12).

"UNSCEGHS" means the United Nations Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals.

"UNSCETDG" means the United Nations Sub-Committee of Experts for the Transport of Dangerous Goods.

ANNEX 2

Allocation of label elements

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Allocation of label elements

For the GHS, the assigned pictogram, signal word and hazard statement are given it that order for each hazard category of the hazard class. Where the hazard class and or categories are covered under the UN Transport of Dangerous Goods Model Regulations (TDG/MR), the assigned corresponding pictogram is given for each category below the GHS requirements.

EXPLOSIVES					
Unstable/ Division 1.1	Division 1.2	Division 1.3	Division 1.4	Division 1.5	Division 1.6
			1.4 * Warning	1.5 * Warning	1.6 *
Danger Explosive; mass	Danger Explosive;	Danger Explosive;	Fire or projection hazard	May explode in fire	
explosion hazard	severe projection hazard	fire, blast or projection hazard		tances or mixture uirements only (s	
			1.4	1.5	1.6
Notes on colours of TDG pictogram elements:					
(1) For Divisions 1.1, 1.2 and 1.3: Symbol exploding bomb: black; background: orange; figure "1" in bottom corner.					
(2) For Divis	ions 1.4, 1.5, 1.6:	Background: or	ange; Figures: bl	ack; figure "1" ir	n bottom corner.

	FLAMMABLE GASES				
Category 1	Category 2	-	-	Note	
	No symbol			Under the TDG/MR, the symbol, number and border line may be shown in	
Danger	Warning			black instead of white. The	
Extremely flammable gas	Flammable gas			background colour stays red in both	
	NOT REQUIRED UNDER THE TDG/MR			cases.	

	FLAMMABLE AEROSOLS				
Category 1	Category 2	-	-	Note	
Danger	Warning			Under the TDG/MR, the symbol, number and border line may be shown in black instead of white. The background	
Extremely flammable aerosol	Flammable aerosol			colour stays red in both cases.	
	2				

	OXIDIZING GASES				
Category 1	-	-	-	Notes	
Danger May cause or intensify fire; oxidizer					
5.1				Pictogram colours: Symbol and number: black. Background: yellow.	

	GASES UNDER PRESSURE				
Compressed gas	Liquefied gas	Refrigerated liquefied gas	Dissolved gas	Notes on TDG/MR pictogram	
\diamond	\blacklozenge		\diamondsuit	(1) Not required for toxic or flammable gases.	
Warning Contains gas under pressure; may explode if heated	Warning Contains gas under pressure; may explode if heated	Warning Contains refrigerated gas; may cause cryogenic burns or injury	Warning Contains gas under pressure; may explode if heated	(2) The symbol, number and border line may be shown in white instead of black. The	
2	2	2	2	background stays green in both cases.	

FLAMMABLE LIQUIDS				
Category 1	Category 2	Category 3	Category 4	
			No symbol	<u>Note on TDG/MR</u> <u>pictogram</u> The symbol, number and border line may be
Danger	Danger	Warning	Warning	shown in black
Extremely flammable liquid and vapour	Highly flammable liquid and vapour	Flammable liquid and vapour	Combustible liquid	instead of white. The background colour stays red in both cases.
3		3	NOT REQUIRED UNDER THE TDG/MR	

	FLAMMABLE SOLIDS				
Category 1	Category 2	-	-	Note	
Danger	Warning			<u>Colours for TDG</u> <u>Pictogram</u> : Symbol and figure: black. Background: white with seven vertical	
Flammable solid	Flammable solid			stripes.	

	SELF-REACTIVE SUBSTANCES				
Туре А	Туре В	Types C and D	Types E and F	Type G	
Danger Heating may cause	×	Danger Heating may	Warning Heating may	No label elements are allocated for this category	
an explosion		cause a fire	cause a fire		
	Danger				
	Heating may cause a fire or explosion				
Same as for explosives (follow same symbol selection process)				Not required under TDG/MR	
	1				
 Notes: (1) For Type B, under TDG/MR, special provision 181 may apply (Exemption of explosive label with competent authority approval. See Chapter 3.3 of RTDG for more details). (2) For colours of TDG pictograms see descriptions for Flammable Solids and Explosives. 					

	PYROPHORIC LIQUIDS				
Category 1	-	-	-	Notes	
Danger Catches fire spontaneously if exposed to air				<u>Colours of TDG</u> <u>pictogram</u> : Symbol and Figure: black. Background: upper half : white; lower half : red.	
4					

	PYROPHORIC SOLIDS				
Category 1	-	-	-	Note	
Danger Catches fire spontaneously if exposed to air				<u>Colours of TDG</u> <u>pictogram</u> : See table for pyrophoric liquids.	

	SELF-HEATING SUBSTANCES				
Category 1	Category 2	-	-	Note	
	×			<u>Colours of TDG</u> <u>pictogram</u> : See table for pyrophoric liquids.	
Danger	Warning				
Self-heating; may catch fire	Self-heating in large quantities; may catch fire				
4					

SUBSTANCE	SUBSTANCES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES					
Category 1	Category 2	Category 3	-	Note		
Danger Danger In contact with water releases flammable gases which may ignite spontaneously	Danger Danger In contact with water releases flammable gases	Warning Warning In contact with water releases flammable gases		Under the TDG/MR, the symbol, number and border line may be shown in black instead of white. The background stays blue in both cases.		

OXIDIZING LIQUIDS					
Category 1	Category 2	Category 3	-	Note	
Danger May cause fire or explosion: strong	Danger May intensify fire: exidizer	Warning May intensify fire: exidirer		<u>TDG Pictogram</u> <u>colours</u> : Symbol and number: black. Background: yellow.	
explosion; strong oxidizer	fire; oxidizer	fire; oxidizer			

OXIDIZING SOLIDS					
Category 1	Category 2	Category 3	-	Note	
				<u>TDG Pictogram</u> <u>colours</u> : See table above on Oxidizing liquids.	
Danger	Danger	Warning			
May cause fire or explosion; strong oxidizer	May intensify fire; oxidizer	May intensify fire; oxidizer			
5.1	5.1	5.1			

	ORGANIC PEROXIDES					
Туре А	Туре В	Types C and D	Types E and F	Type G		
Dangar	<u>i</u>	Dansar	Warning	There are no label elements allocated to this hazard class.		
Danger		Danger	Warning	nazai u ciass.		
Heating may cause An explosion		Heating may cause a fire	Heating may cause a fire			
	Danger					
	Heating may cause a fire or explosion					
Same as for explosives (follow same symbol selection process)	5.2	5.2	5.2	NOT REQUIRED UNDER TDG/MR		
label w	label with competent authority approval. See Chapter 3.3 of RTDG for more details).					

	CORROSIVE TO METALS					
Category 1	-	-	-	Note		
Warning May be corrosive to metals				<u>TDG pictogram</u> <u>colours</u> : Symbol: black background: upper half: white; lower half: black with white border; Figure 8: white.		
8						

ACUTE TOXICITY: ORAL					
Category 1	Category 2	Category 3	Category 4	Category 5	
			!	No symbol	
Danger	Danger	Danger	Warning	Warning	
Fatal if swallowed	Fatal if swallowed	Toxic if swallowed	Harmful if swallowed	May be harmful if swallowed	
6	6	6	NOT REQUIRED UNDER THE TDG/MR <u>Notes</u> : For gases and aerosols under the TDG/MR, replace the number 6 in the bottom corner of the pictogram by 2. TDG pictogram colours: Symbol and figure: black. Background: white.		

ACUTE TOXICITY: DERMAL					
Category 1	Category 2	Category 3	Category 4	Category 5	
				No symbol	
Danger	Danger	Danger	Warning	Warning	
Fatal in contact with skin	Fatal in contact with skin	Toxic in contact with skin	Harmful in contact with skin	May be harmful in contact with skin	
6	6	6	NOT REQUIRED UNDER THE TDG/MR Notes: For gases and aerosols under the TDG/MR, replace the number 6 in the bottom corner of the pictogram by 2. For TDG pictogram colours: see table above on acute toxicity-oral.		

ACUTE TOXICITY: INHALATION					
Category 1	Category 2	Category 3	Category 4	Category 5	
				No symbol	
Danger	Danger	Danger	Warning	Warning	
Fatal if inhaled	Fatal if inhaled	Toxic if inhaled	Harmful if inhaled	May be harmful if inhaled	
6	6	6	NOT REQUIRED UNDER THE TDG/MF Notes: For gases and aerosols under the TDG/MR, replace the number 6 in the bottom corner of the pictogram by 2. For TDG pictogram colours: see table above on acute toxicity-oral.		

SKIN CORROSION/IRRITATION					
Category 1A	Category 1B	Category 1C	Category 2	Category 3	
				No symbol	
Danger	Danger	Danger	Warning	Warning	
Causes severe skin burns and eye damage	Causes severe skin burns and eye damage	Causes severe skin burns and eye damage	Causes skin irritation	Causes mild skin irritation	
8	B		NOT REQUIRED UNDER THE TDG/MR <u>Note</u>: For TDG pcitogram colours see table above on Corrosive to metals.		

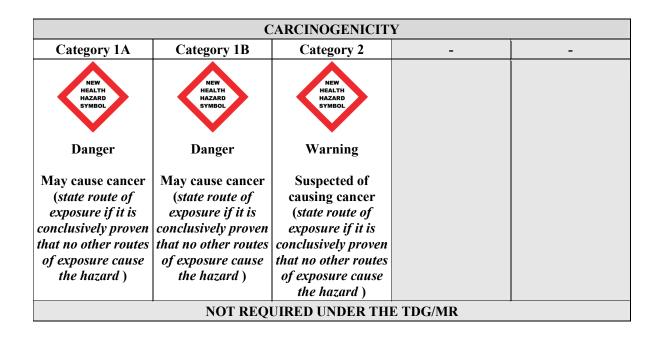
	SEVERE EYE DAMAGE/ EYE IRRITATION				
Category 1	Category 2A	Category 2B	-	-	
	</td <td>No symbol</td> <td></td> <td></td>	No symbol			
Danger	Warning	Warning			
Causes severe eye damage	Causes severe eye irritation	Causes eye irritation			
	NOT REQUI	RED UNDER THE	TDG/MR		

RESPIRATORY SENSITIZATION *								
Category 1	-							
	NOT REQ	UIRED UNDER TH	E TDG/MR					

NOT REQUIRED UNDER THE TDG/MR

DERMAL SENSITIZATION*					
Category 1	-	-	-	-	
Warning War cause an allergic skin reaction	about sensitisation cut-off for mixtures should be conveyed already sensitised, a was not clear durin sensitizers, and thu the system become Subcommittee on C criteria for substand inclusion of a test r strong sensitizers v	effects, and at what is 1%, it appears the l below that level. The as well as to warn the g the initial deliberar is has not been adequest implemented, this GHS as one of its pri- ces will also have to method currently being ersus those that are ded along with the dis-	point it should be co that the major system This may be appropri- tions on the criteria tately discussed nor issue should be revi- torities. It should be be re-opened to cor- ng reviewed that ad weaker. Appropriat	to convey to those exposed onveyed. While the current s all believe information riate both to warn those ne sensitised. This issue for mixtures containing options explored. Before sited by the ECOSOC e noted that the sensitisation noider this issue and the dresses the question of the hazard communication eria and the availability of	
	NOT RI	EQUIRED UNDER	R THE TDG/MR		

	GERM CELL MUTAGENICITY				
Category 1A	Category 1B	Category 2	-	-	
NEW HEALTH HAZARD SYMBOL	NEW HEALTH HAZARD SYMBOL	NEW HEALTH HAZARD SYMBOL			
Danger	Danger	Warning			
May cause genetic	May cause genetic	Suspected of			
defects (state route of	defects (<i>state route of</i>	causing genetic defects			
exposure if it is	exposure if it is	(state route of			
1 0	conclusively proven	exposure if it is			
	that no other routes				
of exposure cause	of exposure cause	that no other routes			
the hazard)	the hazard)	of exposure cause			
		the hazard)			
	NOT REQU	UIRED UNDER TH	E TDG/MR		



TOXIC TO REPRODUCTION					
Category 1A	Category 1B	Category 2	Additional Category	-	
NEW HEALTH HAZARD SYMBOL	NEW HEALTH HAZARD SYMBOL	NEW HEALTH HAZARD SYMBOL	Effects on or via lactation		
Danger	Danger	Warning			
	• 1	or the unborn child (state specific effect if known or route of exposure if it is conclusively proven			
NOT REQUIRED UNDER THE TDG/MR					

Category 1Category 2Image: DangerWarningImage: WarningImage: WarningImage: WarningCauses damage to (state all organs affected, or use a general statement where there is no definite evidence that other organs are not affected) if (state route of exposure (if it is conclusively proven that no other routes of exposure cause the hazard)May cause damage to (state route of exposure cause the hazard)Image: Warning	TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)				
HEALTH HAZARD D'NIBOLMALTH HAZARD D'NIBOLDangerWarningCauses damage to (state all organs affected, or use a general statement where there is no definite evidence that other organs are not affected) if (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)May cause damage to (state all organs affected, or use a general statement where there is no definite evidence that other organs are not affected) if (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)May cause damage to (state all organs affected, or use a general statement where there is no definite evidence that other organs are not affected) if (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)Hat offected the hazard	Category 1	Category 2	-	-	-
Causes damage to (state all organs affected, or use a general statement where there is no definite evidence that other organs are not affected) if (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)May cause damage to (state all organs affected, or use a general statement where there is no definite evidence that other organs are not affected) if (state route of that no other routes of exposure cause the hazard)May cause damage to (state all organs affected, or use a general statement where there is no definite evidence that other organs that other organs are not affected) if (state route of that no other routes of exposure cause the hazard)May cause damage tamage the hazard (state route of the hazard (state route of the hazard (state route of the hazard (HEALTH HAZARD	HEALTH HAZARD			
(state all organs affected, or use a general statement where there is no definite evidence that other organs are not affected) if 	Danger	Warning			
NOT REOUIRED UNDER THE TDG/MR	(state all organs affected, or use a general statement where there is no definite evidence that other organs are not affected) if (state route of exposure if it is conclusively proven that no other routes of exposure cause	to (state all organs affected, or use a general statement where there is no definite evidence that other organs are not affected) if (state route of exposure if it is conclusively proven that no other routes of exposure cause			

TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)				
Category 1	Category 2	-	-	-
NEW HEALTH HAZARD SYMBOL	NEW HEALTH HAZARD SYMBOL			
Danger	Warning			
Causes (state all organs affected, or use a general statement where there is no definite evidence that other organs are not affected) damage through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the	it is conclusively proven that no other routes of exposure cause the			
hazard)	hazard)			
NOT REQUIRED UNDER THE TDG/MR				

	AQUATIC TOXICITY (ACUTE)					
Category 1	Category 2	Category 3	-	Note		
Warning Very toxic to	No symbol No signal word Toxic to	No symbol No signal word Harmful to		Presently not covered under the TDG/MR if the substance presents any other hazards covered by TDG/MR. If no other hazard is presented, the TDG/MR Class 9		
aquatic life	aquatic life	aquatic life		label is applicable. The TDG/MR requirements are being revised.		

AQUATIC TOXICITY (CHRONIC)					
Category 1	Category 2	Category 3	Category 4	Note	
¥2	匙	No symbol	No symbol	Presently not covered under the TDG/MR if the substance presents any other hazards	
Warning	No signal word	No signal word	No signal word	covered by TDG/MR. If no	
Very toxic to aquatic life with long lasting effects	Toxic to aquatic life with long lasting effects	Harmful to aquatic life with long lasting effects	May cause long lasting harmful effects to aquatic life	other hazard is presented, TDG/MR Class 9 label is applicable. The TDG/MR requirements being revised.	