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

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

Ninth session, 11-13 July 2005
Item 3 (c) of the provisional agenda

HAZARD COMMUNICATION ISSUES

Numbering of GHS Hazard Statements

Transmitted by the Chairperson

Background

Issue:

1. To assign a common numbering system to the GHS hazard statements.

Discussion:

2. For ease of reference, standardized numbers should be assigned to each hazard statement.

Recommendation :

3. It is recommended that each hazard statement be assigned a specific number as per the attached annex.

Annex**GHS HAZARD STATEMENTS**Table 1

Hazard Class	Hazard Category	Hazard Statement	Hazard Number
Explosives	Unstable explosive	Unstable explosive	1
	Division 1.1	Explosive; mass explosion hazard	2
	Division 1.2	Explosive; severe projection hazard	3
	Division 1.3	Explosive; fire, blast or projection hazard	4
	Division 1.4	Fire or projection hazard	5
	Division 1.5	May mass explode in fire	6
	Division 1.6	No hazard statement	7
Flammable gases	1	Extremely flammable gas	8
	2	Flammable gas	9
Flammable aerosols	1	Extremely flammable aerosol	10
	2	Flammable aerosol	11
Oxidizing gases	1	May cause or intensity fire; oxidizer	12
Gases under pressure	Compressed gas	Contains gas under pressure; may explode if heated	13
	Liquefied gas	Contains gas under pressure; may explode if heated	13
	Refrigerated liquefied gas	Contains refrigerated gas; may cause cryogenic burns or injury	14
	Dissolved gas	Contains gas under pressure; may explode if heated	13
Flammable liquids	1	Extremely flammable liquid and vapour	15
	2	Highly flammable liquid and vapour	16
	3	Flammable liquid and vapour	17
	4	Combustible liquid	18
Flammable solids	1	Flammable solid	19
	2	Flammable solid	19
Self-reactive substances	Type A	Heating may cause an explosion	20
	Type B	Heating may cause a fire or explosion	21
	Type C	Heating may cause a fire	22
	Type D	Heating may cause a fire	22
	Type E	Heating may cause a fire	22
	Type F	Heating may cause a fire	22
	Type G	There are no label elements allocated to this hazard category	23
Pyrophoric liquids	1	Catches fire spontaneously if exposed to air	24

Hazard Class	Hazard Category	Hazard Statement	Hazard Number
Pyrophoric solids	1	Catches fire spontaneously if exposed to air	24
Self-heating substances	1	Self-heating; may catch fire	25
	2	Self-heating in large quantities; may catch fire	26
Substances, which on contact with water emit flammable gases	1	In contact with water releases flammable gases which may ignite spontaneously	27
	2	In contact with water releases flammable gases	28
	3	In contact with water releases flammable gases	28
Oxidizing liquids	1	May cause fire or explosion; strong oxidizer	29
	2	May intensify fire; oxidizer	30
	3	May intensify fire; oxidizer	30
Oxidizing solids	1	May cause fire or explosion; strong oxidizer	29
	2	May intensify fire; oxidizer	30
	3	May intensify fire; oxidizer	30
Organic peroxides	Type A	Heating may cause an explosion	20
	Type B	Heating may cause a fire or explosion	21
	Type C	Heating may cause a fire	22
	Type D	Heating may cause a fire	22
	Type E	Heating may cause a fire	22
	Type F	Heating may cause a fire	22
	Type G	There are no label elements allocated to this hazard category	23
Corrosive to metals	1	May be corrosive to metals	31
Acute toxicity	1	Fatal if swallowed (oral). Fatal in contact with skin (dermal). Fatal if inhaled (gas, vapour, dust, mist)	32
	2	Fatal if swallowed (oral). Fatal in contact with skin (dermal). Fatal if inhaled (gas, vapour, dust, mist)	32
	3	Toxic if swallowed (oral). Toxic in contact with skin (dermal). Toxic if inhaled (gas, vapour, dust, mist)	33
	4	Harmful if swallowed (oral). Harmful in contact with skin (dermal). Harmful if inhaled (gas, vapour, dust, mist)	34
	5	May be harmful if swallowed (oral). May be harmful in contact with skin (dermal). May be harmful if inhaled (gas, vapour, dust, mist)	35
Skin corrosion/irritation	1	Causes severe skin burns and eye damage	36
	2	Causes skin irritation	37
	3	Causes mild skin irritation	38

Hazard Class	Hazard Category	Hazard Statement	Hazard Number
Serious eye damage/ eye irritation	1 Irreversible effects	Causes serious eye damage	39
	2A Irritant	Causes serious eye irritation	40
	2B Mild irritant	Causes eye irritation	41
Respiratory sensitization	1	May cause allergy or asthma symptoms or breathing difficulties if inhaled	42
Skin sensitizer	1	May cause an allergic skin reaction	43
Mutagenicity	1 (Both 1A and 1B)	May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	44
	2	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	45
Carcinogenicity	1 (Both 1A and 1B)	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	46
	2	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	47
Toxic to reproduction	1 (Both 1A and 1B)	May damage fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	48
	2	Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	49
	Additional category for effects on or via lactation	May cause harm to breast-fed children	50
Specific target organ systemic toxicity (single exposure)	1	Causes damage to organs (state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	51
	2	May cause damage to organs (state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	52
	3	May cause respiratory irritation or May cause drowsiness and dizziness	53

Hazard Class	Hazard Category	Hazard Statement	Hazard Number
Specific target organ systemic toxicity (repeated exposure)	1	Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	54
	2	May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	55
Aspiration toxicity	1	May be fatal if swallowed and enters airways	56
	2	May be harmful if swallowed and enters airways	57
Acute hazards to the aquatic environment	1	Very toxic to aquatic life	58
	2	Toxic to aquatic life	59
	3	Harmful to aquatic life	60
Chronic hazards to the aquatic environment	1	Very toxic to aquatic life with long lasting effects	61
	2	Toxic to aquatic life with long lasting effects	62
	3	Harmful to aquatic life with long lasting effects	63
	4	May cause long lasting harmful effects to aquatic life	64

Table 2

Hazard Class	Hazard Category	Hazard Number
Explosives	Unstable explosive	1
	Division 1.1	2
	Division 1.2	3
	Division 1.3	4
	Division 1.4	5
	Division 1.5	6
	Division 1.6	7
Flammable gases	1	8
	2	9
Flammable aerosols	1	10
	2	11
Oxidizing gases	1	12
Gases under pressure	Compressed gas	13
	Liquefied gas	13
	Refrigerated liquefied gas	14
	Dissolved gas	13
Flammable liquids	1	15
	2	16
	3	17
	4	18
Flammable solids	1	19
	2	19
Self-reactive substances	Type A	20
	Type B	21
	Type C	22
	Type D	22
	Type E	22
	Type F	22
	Type G	23
Pyrophoric liquids	1	24
Pyrophoric solids	1	24
Self-heating substances	1	25
	2	26
Substances, which on contact with water emit flammable gases	1	27
	2	28
	3	28
Oxidizing liquids	1	29
	2	30
	3	30
Oxidizing solids	1	29
	2	30
	3	30

Hazard Class	Hazard Category	Hazard Number
Organic peroxides	Type A	20
	Type B	21
	Type C	22
	Type D	22
	Type E	22
	Type F	22
	Type G	23
Corrosive to metals	1	31
Acute toxicity	1	32
	2	32
	3	33
	4	34
	5	35
Skin corrosion/irritation	1	36
	2	37
	3	38
Serious eye damage/ eye irritation	1 Irreversible effects	39
	2A Irritant	40
	2B Mild irritant	41
Respiratory sensitization	1	42
Skin sensitizer	1	43
Mutagenicity	1 (Both 1A and 1B)	44
	2	45
Carcinogenicity	1 (Both 1A and 1B)	46
	2	47
Toxic to reproduction	1 (Both 1A and 1B)	48
	2	49
	Additional category for effects on or via lactation	50
Specific target organ systemic toxicity (single exposure)	1	51
	2	52
	3	53
Specific target organ systemic toxicity (repeated exposure)	1	54
	2	55
Aspiration toxicity	1	56
	2	57
Acute hazards to the aquatic environment	1	58
	2	59
	3	60
Chronic hazards to the aquatic environment	1	61
	2	62
	3	63
	4	64

Table 3

Hazard Number	Hazard Statement
1	Unstable explosive
2	Explosive; mass explosion hazard
3	Explosive; severe projection hazard
4	Explosive; fire, blast or projection hazard
5	Fire or projection hazard
6	May mass explode in fire
7	No hazard statement
8	Extremely flammable gas
9	Flammable gas
10	Extremely flammable aerosol
11	Flammable aerosol
12	May cause or intensify fire; oxidizer
13	Contains gas under pressure; may explode if heated
14	Contains refrigerated gas; may cause cryogenic burns or injury
15	Extremely flammable liquid and vapour
16	Highly flammable liquid and vapour
17	Flammable liquid and vapour
18	Combustible liquid
19	Flammable solid
20	Heating may cause an explosion
21	Heating may cause a fire or explosion
22	Heating may cause a fire
23	There are no label elements allocated to this hazard category
24	Catches fire spontaneously if exposed to air
25	Self-heating; may catch fire
26	Self-heating in large quantities; may catch fire
27	In contact with water releases flammable gases which may ignite spontaneously
28	In contact with water releases flammable gases
29	May cause fire or explosion; strong oxidizer
30	May intensify fire; oxidizer
31	May be corrosive to metals
32	Fatal if swallowed (oral). Fatal in contact with skin (dermal). Fatal if inhaled (gas, vapour, dust, mist)
33	Toxic if swallowed (oral). Toxic in contact with skin (dermal). Toxic if inhaled (gas, vapour, dust, mist)
34	Harmful if swallowed (oral). Harmful in contact with skin (dermal). Harmful if inhaled (gas, vapour, dust, mist)

Hazard Number	Hazard Statement
35	May be harmful if swallowed (oral). May be harmful in contact with skin (dermal). May be harmful if inhaled (gas, vapour, dust, mist)
36	Causes severe skin burns and eye damage
37	Causes skin irritation
38	Causes mild skin irritation
39	Causes serious eye damage
40	Causes serious eye irritation
41	Causes eye irritation
42	May cause allergy or asthma symptoms or breathing difficulties if inhaled
43	May cause an allergic skin reaction
44	May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
45	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
46	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
47	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
48	May damage fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
49	Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
50	May cause harm to breast-fed children
51	Causes damage to organs (state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
52	May cause damage to organs (state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
53	May cause respiratory irritation or May cause drowsiness and dizziness
54	Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
55	May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
56	May be fatal if swallowed and enters airways
57	May be harmful if swallowed and enters airways
58	Very toxic to aquatic life

Hazard Number	Hazard Statement
59	Toxic to aquatic life
60	Harmful to aquatic life
61	Very toxic to aquatic life with long lasting effects
62	Toxic to aquatic life with long lasting effects
63	Harmful to aquatic life with long lasting effects
64	May cause long lasting harmful effects to aquatic life
