UN/SCEGHS/9/INF.8

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

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Hazard communication issues

Numbering of GHS hazard statements

Transmitted by the expert from Australia

<u>Introduction</u>

1. This informal document provides comments and suggested improvements on the hazard statement numbering system proposed in ST/SG/AC.10/C.4/2005/1 – *Numbering of GHS Hazard Statements*. Our proposal is an extension to the work presented in UN/SCEGHS/9/INF.7 – *Codification of Precautionary Statements*.

Discussion

- 2. In our proposal, hazard statements are grouped depending on whether they relate to physical, health or environmental hazards. Statements within each group are then numbered using a three-digit number: H100-H128 for physical hazards, H200-H234 for health hazards and H300-H306 for environmental hazards (Annex 1).
- 3. Each hazard statement is given a unique number. This numbering system has the benefit that if any related statements are added to the system in the future then they can be inserted into the appropriate group using the unassigned numbers.
- 4. In the proposal in ST/SG/AC.10/C.4/2005/1 *Numbering of GHS Hazard Statements*, several statements are grouped together with the same number. For example, Hazard number 32 incorporates the statements "Fatal if swallowed, Fatal in contact with skin and Fatal if inhaled". Similarly, Hazard numbers 33, 34 and 35 all group three hazard statements together. Under the proposal outlined in this paper, each hazard statement is given a different number.
- 5. It was also noted that number 23 has been assigned to "There are no label elements allocated to this hazard category". It is recommended that this statement should not be given a number.

Recommendation

6. It is recommended that the hazard statement numbering system described above be adopted for the reasons outline in the discussion.

Annex 1: Codified hazard statements

Code	Hazard Statement
H100	Unstable explosive
H101	Explosive; mass explosion hazard
H102	Explosive; severe projection hazard
H103	Explosive; fire, blast or projection hazard
H104	Fire or projection hazard
H105	May explode in fire
H106	Extremely flammable gas
H107	Flammable gas
H108	Extremely flammable aerosol
H109	Flammable aerosol
H110	May cause or intensify fire; oxidizer
H111	Contains gas under pressure; may explode if heated
H112	Contains refrigerated gas; may cause cryogenic burns or injury
H113	Extremely flammable liquid and vapour
H114	Highly flammable liquid and vapour
H115	Flammable liquid and vapour
H116	Combustible liquid
H117	Flammable solid
H118	Heating may cause an explosion
H119	Heating may cause a fire or explosion
H120	Heating may cause a fire
H121	Catches fire spontaneously if exposed to air
H122	Self-heating; may catch fire
H123	Self-heating in large quantities; may catch fire
H124	In contact with water releases flammable gases which may ignite spontaneously
H125	In contact with water releases flammable gas
H126	May cause fire or explosion; strong oxidizer
H127	May intensify fire; oxidizer
H128	May be corrosive to metals
H200	Fatal if swallowed
H201	May be fatal if swallowed and enters airways
H202	Fatal in contact with skin
H203	Fatal if inhaled
H204	Toxic if swallowed
H205	Toxic in contact with skin
H206	Toxic if inhaled
H207	Harmful if swallowed
H208	Harmful in contact with skin
H209	Harmful if inhaled
H210	May be harmful if swallowed
H211	May be harmful if swallowed and enters airways

H212	May be harmful in contact with skin
H213	May be harmful if inhaled
H214	Causes severe skin burns and eye damage
H215	Causes skin irritation
H216	Causes mild skin irritation
H217	Causes serious eye damage
H218	Causes serious eye irritation
H219	Causes eye irritation
H220	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H221	May cause an allergic skin reaction
H222	May cause genetic defects <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the=""></state>
H223	Suspected of causing genetic defects < state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
H224	May cause cancer < state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>
H225	Suspected of causing cancer <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the=""></state>
H226	May damage fertility or the unborn child <state effect="" if="" known="" specific=""> <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the=""></state></state>
H227	Suspected of damaging fertility or the unborn child <state effect="" if="" known="" specific=""> <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the=""></state></state>
H228	May cause harm to breast-fed children
H229	Causes damage to organs <or affected,="" all="" if="" known="" organs="" state=""> if <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the=""></state></or>
H230	May cause damage to organs <or affected,="" all="" if="" known="" organs="" state=""> if <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the=""></state></or>
H231	Causes damage to organs <state affected,="" all="" if="" known="" organs=""> through prolonged or repeated exposure <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the=""></state></state>
H232	May cause damage to organs <state affected,="" all="" if="" known="" organs=""> through prolonged or repeated exposure <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the=""></state></state>
H233	May cause respiratory irritation
H234	May cause drowsiness and dizziness
H300	Very toxic to aquatic life
H301	Toxic to aquatic life
H302	Harmful to aquatic life
H303	Very toxic to aquatic life with long lasting effects
H304	Toxic to aquatic life with long lasting effects
H305	Harmful to aquatic life with long lasting effects
H306	May cause long lasting harmful effects to aquatic life