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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 Transport of Dangerous Goods
(Twenty-fourth session, 1-10 December 2003, agenda item 9)

MISCELLANEOUS PROPOSALS OF AMENDMENTS TO THE MODEL REGULATIONS ON THE TRANSPORT OF DANGEROUS GOODS

Requirements for Toxic by Inhalation Substances

Transmitted by the expert from the United States of America

Background

1. During the previous session of the Sub-Committee a paper from the expert from the United States of America concerning hazard communication requirements for toxic by inhalation (TIH substances) was discussed. The paper included a specific transport document proposal and a proposal for labels and placards. During the discussions we did not receive many comments relative to the documentation requirement other than the fact that we should provide a list of the substances that would be affected. In order to simplify the discussion we are separating the two proposals. The intent of this paper is to address the documentation information proposal.

Proposal

2. In the case of substances transported under the new TIH NOS descriptions, the fact that a substance is a TIH substance will be clear from the proper shipping name that is used. In the case of Division 2.3 gases, it will be clear from the 2.3 Division indicated in the basic description. However, for Division 6.1 TIH liquids transported under specific shipping names, no information is currently required to be provided on the shipping paper to convey the information that the substance is a TIH substance. It is proposed that for TIH substances under a specific chemical proper shipping name (e.g. Acrolein, stabilized) the words **"TOXIC INHALATION HAZARD**" be entered on the dangerous goods transport document immediately following the dangerous goods description required by 5.4.1.4.1. The word "Toxic" need not be repeated if it otherwise appears in the dangerous goods description.

3. It is proposed that a new paragraph 5.4.1.4.3(e) be added as follows:

"(e) *Division 6.1 toxic by inhalation substances*

For liquids that meet the vapor inhalation toxicity criteria for Packing Group I (see 2.6.2.2.4.3) that are described on the transport document by a proper shipping name that does not convey that the substance is toxic by inhalation, the words "Toxic_Inhalation Hazard"shall be entered on the transport document immediately following the dangerous goods description required by 5.4.1.4.1. The word "Toxic" need not be repeated if it otherwise appears in the dangerous goods description.

Identification of Substances Meeting the Inhalation Criteria Division 6.1, Packing Group I

4. To identify those named substances to which the proposed new transport document requirement would apply it is proposed that a new special provision be added in column 6 of the Dangerous Goods List as follows:

> "ZZZ This substance is considered to meet the inhalation toxicity criteria of Division 6.1, Packing Group I. This substance shall be described on the transport document in accordance with 5.4.1.4.3(e)."

5. It is proposed that the new special provision be added to Column 6 of the Dangerous Goods List for the following substances:

UN#	Name and Description
1051	HYDROGEN CYANIDE, STABILIZED containing less than 3% water
1092	ACROLEIN, STABILIZED
1098	ALLYL ALCOHOL
1135	ETHYLENE CHLOROHYDRIN
1143	CROTONALDEHYDE, STABILIZED
1163	DIMETHYLHYDRAZINE, UNSYMMETRICAL
1182	ETHYL CHLOROFORMATE
1185	ETHYLENEIMINE, STABILIZED
1238	METHYL CHLOROFORMATE
1239	METHYL CHLOROMETHYL ETHER
1244	METHYL-HYDRAZINE
1251	METHYL VINYL KETONE, STABILIZED
1259	NICKEL CARBONYL
1380	PENTABORANE
1510	TETRANITRO-METHANE
1541	ACETONE CYANOHYDRIN, STABILIZED
1560	ARSENIC TRICHLORIDE
1569	BROMOACETONE
1580	CHLOROPICRIN
1595	DIMETHYL SULPHATE
1605	ETHYLENE DIBROMIDE
1613	HYDROCYANIC ACID, AQUEOUS SOLUTION (HYDROGEN CYANIDE, AQUEOUS SOLUTION) with not more than 20% hydrogen cyanide
1647	METHYL BROMIDE AND ETHYLENE DIBROMIDE MIXTURE, LIQUID
1670	PERCHLORO_METHYL MERCAPTAN
1672	PHENYL-CARBYLAMINE CHLORIDE
1695	CHLOROACETONE, STABILIZED
1722	ALLYL CHLOROFORMATE

1744 BROMINE or BROMINE SOLUTION
1745 BROMINE PENTAFLUORIDE
1746 BROMINE TRIFLUORIDE
1752 CHLOROACETYL CHLORIDE
1754 CHLORO-SULPHONIC ACID (with or without sulphur trioxide)
1809 PHOSPHORUS TRICHLORIDE
1810 PHOSPHORUS OXYCHLORIDE
1829 SULPHUR TRIOXIDE, STABILIZED
1831 SULPHURIC ACID, FUMING
1834 SULPHURYL CHLORIDE
1838 TITANIUM TETRACHLORIDE
1892 ETHYLDICHLORO-ARSINE
1994 IRON PENTACARBONYL
2032 NITRIC ACID, RED FUMING
2232 2-CHLORO-ETHANAL
2334 ALLYLAMINE
2337 PHENYL MERCAPTAN
2382 DIMETHYL-HYDRAZINE, SYMMETRICAL
2407 ISOPROPYL CHLOROFORMATE
2438 TRIMETHYL-ACETYL CHLORIDE
2442 TRICHLORO-ACETYL CHLORIDE
2474 THIOPHOSGENE
2477 METHYL ISOTHIOCYANATE
2480 METHYL ISOCYANATE
2481 ETHYL ISOCYANATE
2482 n-PROPYL ISOCYANATE
2483 ISOPROPYL ISOCYANATE
2484 tert-BUTYL ISOCYANATE
2485 n-BUTYL ISOCYANATE
2486 ISOBUTYL ISOCYANATE
2487 PHENYL ISOCYANATE
2488 CYCLOHEXYL ISOCYANATE
2521 DIKETENE, STABILIZED
2605 METHOXYMETHYL ISOCYANATE
2606 METHYL ORTHOSILICATE
2644 METHYL IODIDE
2646 HEXACHLOROCYCLO-PENTADIENE
2668 CHLOROACETONITRILE
2692 BORON TRIBROMIDE
2740 n-PROPYL CHLOROFORMATE
2743 N-BUTYL CHLOROFORMATE
2826 ETHYL CHLOROTHIOFORMATE
3023 2-pMETHYL-2-HEPTANETHIOL
3079 METHACRYLONITRILE, STABILIZED
3246 METHANESULPHONYL CHLORIDE
3294 HYDROGEN CYANIDE, SOLUTION IN ALCOHOL with not more than 45% hydrogen cyanide

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