



Secretariat

Distr.
GENERAL

ST/SG/AC.10/C.3/2002/24
3 April 2002

ORIGINAL : ENGLISH

**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-first session, 1-10 July 2002,
agenda item 8 (c))

LISTING AND CLASSIFICATION

Miscellaneous amendment proposals (Parts 2 and 3)

Requirements for toxic by inhalation substances

Transmitted by the expert from the United States of America

Introduction

1. During previous sessions, the Sub-Committee considered amending the Model Regulations to include requirements for substances that are toxic by inhalation (TIH substances). Hazard communication requirements for TIH substances were discussed on the basis of ST/SG/AC.10/C.3/1998/26. The intention of this proposal was to improve the hazard communication requirements applicable to these substances since it is not readily apparent whether a substance poses an inhalation, oral or dermal toxicity hazard and because the inhalation hazard poses a greater risk in transport if inadvertently released. Requirements for packaging of TIH substances to reduce the likelihood of release in transport have generally been completed with the adoption of P601, P602, most recently P200 and with the rationalized assignment of the portable tank T codes.

2. In this proposal the expert from the United States of America is proposing to introduce ten new N.O.S. entries for toxic liquids that meet the PG I criteria for inhalation toxicity. The adoption of generic TIH liquid N.O.S. entries will serve to ensure that shippers apply the appropriate packaging and portable tank provisions to TIH liquids that are not specifically listed in the Dangerous Goods List.

During previous discussions, a majority of the Sub-Committee indicated support for incorporating generic entries for toxic-by-inhalation liquids in the Model Regulations. A specific decision was not taken on this matter because the US paper had several hazard communication proposals and the expert from the United States of America did not request that the Sub-Committee take individual decisions on each of the hazard communication proposals. A number of experts also indicated that decisions on TIH substances should be deferred pending completion of the GHS classification efforts which have subsequently been completed. On this basis, the expert from the United States of America believes that the Sub-Committee should consider adopting generic entries for TIH liquid substances to better distinguish between Division 6.1 TIH substances that meet the PG I inhalation toxicity criteria and those that meet the oral or dermal criteria.

Proposal

3. The following 10 new entries are proposed:

UN #	PSN	Class/ Division	Sub-risk	PG	SP	LQ	Packaging and IBCs		Portable Tanks	
							PI (8)	PP (9)	T (10)	TP (11)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
xxxx	TOXIC BY INHALATION LIQUID, N.O.S. <i>with an inhalation toxicity of 200 ml/m³ or less and saturated vapour concentration \geq 500 LC₅₀</i>	6.1		I	274 xxx	None	P601		T22	TP2, TP13
xxxy	TOXIC BY INHALATION LIQUID, N.O.S. <i>with an inhalation toxicity of 1000 ml/m³ or less and saturated vapour concentration \geq 10 LC₅₀</i>	6.1		I	274 xxx	None	P602		T20	TP2, TP13
xxxz	TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. <i>with an inhalation toxicity of 200 ml/m³ or less and saturated vapour concentration \geq 500 LC₅₀</i>	6.1	3	I	274 xxx	None	P601		T22	TP2, TP13
xyyx	TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. <i>with an inhalation toxicity of 1000 ml/m³ or less and saturated vapour concentration \geq 10 LC₅₀</i>	6.1	3	I	274 xxx	None	P602		T20	TP2, TP13

UN #	PSN	Class/ Division	Sub-risk	PG	SP	LQ	Packaging and IBCs		Portable Tanks	
							PI (8)	PP (9)	T (10)	TP (11)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
xyyy	TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. <i>with an inhalation toxicity of 200 ml/m³ or less and saturated vapour concentration $\geq 500 LC_{50}$</i>	6.1	4.3	I	274 xxx	None	P601		T22	TP2, TP13
xxzz	TOXIC BY INHALATION LIQUID, WATER-REACTIVE, N.O.S. <i>with an inhalation toxicity of 1000 ml/m³ or less and saturated vapour concentration $\geq 10 LC_{50}$</i>	6.1	4.3	I	274 xxx	None	P602		T20	TP2, TP13
xyyy	TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. <i>with an inhalation toxicity of 200 ml/m³ or less and saturated vapour concentration $\geq 500 LC_{50}$</i>	6.1	5.1	I	274 xxx	None	P601		T22	TP2, TP13
xxzz	TOXIC BY INHALATION LIQUID, OXIDIZING, N.O.S. <i>with an inhalation toxicity of 1000 ml/m³ or less and saturated vapour concentration $\geq 10 LC_{50}$</i>	6.1	5.1	I	274 xxx	None	P602		T20	TP2, TP13
yyyy	TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. <i>with an inhalation toxicity of 200 ml/m³ or less and saturated vapour concentration $\geq 500 LC_{50}$</i>	6.1	8	I	274 xxx	None	P601		T22	TP2, TP13
zzzz	TOXIC BY INHALATION LIQUID, CORROSIVE, N.O.S. <i>with an inhalation toxicity of 1000 ml/m³ or less and saturated vapour concentration $\geq 10 LC_{50}$</i>	6.1	8	I	274 xxx	None	P602		T20	TP2, TP13

Each of these entries should have the following special provision indicated in column 6 of the Dangerous Goods list:

“XXX This entry shall only be used for Division 6.1 substances that meet the inhalation toxicity criteria for Packing Group I as described in 2.6.2.2.4.3.”

5. To prevent existing toxic liquid NOS entries from being used to describe liquids that meet the inhalation toxicity criteria for PG I a special provision should be placed against each such NOS entry. The new special provision should read:

“YYY This entry shall not be used for Division 6.1 substances that meet the inhalation toxicity criteria for Packing Group I described in 2.6.2.2.4.3.”

This special provision should appear in column 6 of the Dangerous Goods List against the following entries:

1583, 2810, 2927, 2929, 3122, 3123, 3275, 3276, 3278, 3279, 3280, 3281, 3287, and 3289.
