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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
(Twentieth session, 3-11 December 2001,
agenda item 7(b))

LISTING AND CLASSIFICATION

Correct assignment of UN Numbers to substances and solutions with respect to physical state (liquid or solid)

Transmitted by the experts from Netherlands and Germany

Background

In July 2001 the Subcommittee discussed a joint paper from the Netherlands and Germany (ST/SG/AC.10/C.3/2001/14 concerning the assignment of substances and solutions to the correct UN number in relation to the physical state (liquid/solid), see paragraphs 71 to 75 of report ST/SG/AC.10/C.3/38.

After discussion it was agreed that separate entries should be created for the solid and the solution thereof (option 1 of ST/SG/AC.10/C.3/2001/14). This principle is laid down in 2.0.2.5 and 2.0.2.6 and therefore these paragraphs should not be changed. The attached Annex shows all entries for which in one (or more) of the international regulations (UN Recommendations, IMDG-Code, RID/ADR and also CFR) both liquid and solid entries are mentioned, including the draft consequential amendments for Chapter 3.2 – DANGEROUS GOODS LIST (12th ed.). It should be discussed whether it is necessary to create new UN numbers in all cases.

A further point concerns those substances for which due to different composition of isomers the entry can be both a liquid or a solid. In those cases it was decided to create separate UN-numbers for the liquid and solid state (option B1 of ST/SG/AC.10/C.3/2001/14).

As a consequence of this decision the text in 3.1.2.4 should be deleted. It is proposed to create a special provision against both the liquid and as the solid entry, as follows :

Against the liquid entry:

Sp xxx This substance may also appear in the solid state, in that case UN should be used.

Against the solid entry :

Sp yyy This substance may also appear in the liquid state, in that case UN should be used.

(It is not considered very user friendly to have one special provision)

After a thorough study of the regulations and consultation of the database of the BAM in Berlin, a list of all entries concerned was compiled (see the Annex to this document).

Action requested

The experts are invited:

- to study the attached Annex and decide if it is necessary to create new UN numbers in all cases;
- to study the option to create a special provision against both the liquid and the solid entry for substances where due to different composition of isomers the entry may be both a liquid or a solid.
- To bring their conclusions to the attention of the experts of the Netherlands and Germany with the aim to produce a final document for the July 2002 session containing new entries and amendments to Chapter 3.2 – DANGEROUS GOODS LIST (12th ed.) concerning the correct assignment of UN Numbers to substances and solutions with respect to their physical state (liquid or solid), and to create new special provisions.

Annex

The attached annex lists all entries, which may appear in the solid and in the liquid state in one (or more) of the international regulations (UN Recommendations, IMDG-Code, RID/ADR and also CFR) together with the consequential amendments.

The existing UN number is used for the case described in the present regulations. A new UN number is proposed for the substance in the other aggregation state. In this list the consequential amendments are indicated. Consequential amendments are based on the rationalised approach of the issue concerned.

Annex

New entries and amendments to DGL (12th ed.) concerning "LIQUID/SOLID/SOLUTION"-problem Based upon ST/SG/AC.10/C.3/2001/14 - Annex 1

Legend:

XXXX = amendment to existing entry with regard to 'Name and description' in column (2), e.g. by adding 'SOLID', 'LIQUID' or "SOLUTION"

ZZZZ = new entry

The information given in the columns (6) to (11) for the new entries are based upon the "Rationalized Approach" for packagings, RID/ADR and IMDG Code.

Note: "a new entry" = a solid, liquid or solution entry which has not been mentioned in the 'Orange Book' by means of the applicable packing instruction, column (8) (e.g. in 'Orange Book' an existing entry for a liquid/P001 ⇒ 'new entry' + new UN No. will be the solid/P002, etc.); or: the second mentioned entry under an existing entry with the same UN No. will become the 'new entry'.

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1389	ALKALI METAL AMALGAM, LIQUID	4.3		I	182	NONE	P402			
ABCD	ALKALI METAL AMALGAM, SOLID	4.3		I	182	NONE	P403			
1392	ALKALINE EARTH METAL AMALGAM, LIQUID	4.3		I	183	NONE	P402			
BCDE	ALKALINE EARTH METAL AMALGAM, SOLID	4.3		I'	183	NONE	P403			
1420	POTASSIUM METAL ALLOYS, LIQUID	4.3		I		NONE	P403 IBC04	B1		
XXXX	POTASSIUM METAL ALLOYS, LIQUID	4.3		I		NONE	P402			
1422	POTASSIUM SODIUM ALLOYS, LIQUID	4.3		I		NONE	P403			
XXXX	POTASSIUM SODIUM ALLOYS, SOLID	4.3		I		NONE	P402			
1445	BARIUM CHLORATE, SOLID	5.1	6.1	II		1 kg	P002 IBC06	B2		

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
DEFG	BARIUM PERCHLORATE, SOLUTION	5.1	6.1	II		500ml	P504 IBC01		T4	TP1
1447	BARIUM PERCHLORATE, SOLID	5.1	6.1	II		1 kg	P002 IBC06	B2	T4	TP1
EFGH	CHLORATE AND MAGNESIUM CHLORIDE MIXTURE, SOLUTION	5.1		II		500ml	P504 IBC01		T4	TP1
EFGH	CHLORATE AND MAGNESIUM CHLORIDE MIXTURE, SOLUTION	5.1		III		1l	P504 IBC01		T4	TP1
1459	CHLORATE AND MAGNESIUM CHLORIDE MIXTURE, SOLID	5.1		II		1 kg	P002 IBC08	B2, B4		
1459	CHLORATE AND MAGNESIUM CHLORIDE MIXTURE, SOLID	5.1		III	223	5 kg	P002 IBC08 LP02	B3		
1470	LEAD PERCHLORATE, SOLID	5.1	6.1	II		1 kg	P002 IBC06	B2		
FGHI	LEAD PERCHLORATE, SOLUTION	5.1	6.1	II		500 ml	P504 IBC01		T4	TP1
1577	CHLORODINITROBENZENES, LIQUID	6.1		II		100 ml	P001 IBC02		T7	TP2
XXXX	CHLORODINITROBENZENES, SOLID	6.1		II		500g	P002 IBC08 LP02		Note: is now an existing entry under UN 1577	
1578	CHLORONITROBENZENES, SOLID	6.1		II	279	500g	P002 IBC08	B2, B4		
XXXX	CHLORONITROBENZENES, LIQUID						P001 IBC02		T7	TP2
1579	4-CHLORO-ortho-TOLUIDINE HYDROCHLORIDE, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3		

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
GHJ	4-CHLORO-ortho-TOLUIDINE HYDROCHLORIDE, SOLUTION	6.1		III		5 l	P001 IBC03			
1650	Beta-NAPHTHYLAMINE, SOLID	6.1		II		500 g	P002 IBC08	B2, B4		
XXXX	Beta-NAPHTHYLAMINE, LIQUID			II		100 ml	P001 IBC02		T7	TP2
1656	NICOTINE HYDROCHLORIDE, LIQUID	6.1		II	43	100ml	P001 IBC02			
XXXX	NICOTINE HYDROCHLORIDE SOLUTION	6.1		II	43	100ml	P001 IBC02		Note: is now an existing entry under UN 1656	
HJK	NICOTINE HYDROCHLORIDE, SOLID	6.1		II	43	500 g	P002 IBC08	B2, B4	Note: is now an existing entry under UN 1656	
1658	NICOTINE SULPHATE, SOLUTION	6.1		II		100 ml	P001 IBC02			
IJKL	NICOTINE SULPHATE, SOLID	6.1		II		500 g	P002 IBC08	B2, B4	Note: is now an existing entry under UN 1658	
JKLM	POTASSIUM CYANIDE, SOLUTION	6.1		I		NONE	P001		T14	TP2 TP13
1664	NITROTOLUENES, LIQUID	6.1		II		100ml	P001 IBC02			
XXXX	NITROTOLUENES, SOLID	6.1		II		500g	P002 IBC08	B2, B4	Note: is now an existing entry under UN 1664	
1665	NITROXYLENES, LIQUID	6.1		II		100 ml	P001 IBC02	T7	TP2	

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
XXXX	NITROXYLENES, SOLID	6.1		II		500 g	P002 IBC08	B2, B4	Note: is now an existing entry under UN 1665	
1680	POTASSIUM CYANIDE, SOLID	6.1		I		NONE	P002 IBC07	B1		
MNOP	SODIUM CYANIDE, SOLUTION	6.1		I		NONE	P001		T14	TP2 TP13
1689	SODIUM CYANIDE, SOLID	6.1		I		NONE	P002 IBC07			
NOPQ	SODIUM FLUORIDE, SOLUTION	6.1		III		5 l	P001 IBC03		T4	TP1
1690	SODIUM FLUORIDE, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3		
1693	TEAR GAS SUBSTANCE, LIQUID, N.O.S.	6.1		I	274	NONE	P001			
1693	TEAR GAS SUBSTANCE, LIQUID, N.O.S.	6.1		II	274	NONE	P001 IBC02			
OPQR	TEAR GAS SUBSTANCE, SOLID, N.O.S.	6.1		I	274	NONE	P002		Note: is now an existing entry under UN 1693	
OPQR	TEAR GAS SUBSTANCE, SOLID, N.O.S.	6.1		II	274	NONE	P002 IBC08	B2, B4	Note: is now an existing entry under UN 1693	
1694	BROMOBENZYL CYANIDES, LIQUID	6.1		I	138	NONE	P001			
PQRS	BROMOBENZYL CYANIDES, SOLID	6.1		I	138	NONE	P002		Note: is now an existing entry under UN 1694	

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
QRST	CHLOROACETOPHENONE, LIQUID	6.1		II		NONE	P001 IBC02		T7	TP2 TP13
1697	CHLOROACETOPHENONE, SOLID	6.1		II		NONE	P002 IBC08	B2, B4		
1699	DIPHENYLCHLOROARSINE, LIQUID	6.1		I		NONE	P001			
RSTU	DIPHENYLCHLOROARSINE, SOLID	6.1		I		NONE	P002 IBC07	B1	Note: is now an existing entry under UN 1699	
1701	XYLIL BROMIDE, LIQUID	6.1		II		NONE	P001 IBC02		T7	TP2 TP13
XXXX	XYLIL BROMIDE, SOLID	6.1		II		NONE	P002 IBC08			
1708	TOLUIDINES, LIQUID	6.1		II	279	100 ml	P001 IBC02		T7	TP2
STUV	TOLUIDINES, SOLID	6.1		II	279	500 g	P002 IBC08	B2, B4	Note: is now an existing entry under UN 1708	
TUWV	2,4-TOLUYLENEDIAMINE, LIQUID	6.1		III		1 l	P001 IBC03		T4	TP1
1709	2,4-TOLUYLENEDIAMINE, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3		
1729	ANISOYL CHLORIDE, LIQUID	8		II		1 l	P001 IBC02		T7	TP2
UVWX	ANISOYL CHLORIDE, SOLID	8		II		500g	P002 IBC08	B2, B4		
1711	XYLIDINES, LIQUID	6.1		II		100ml	P001 IBC02		T7	TP2

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
XXXX	XYLIDINES, SOLID	6.1		II		500g	P002 IBC08	B2, B4	Note: is now an existing entry under UN 1711	
1742	BORON TRIFLUORIDE ACETIC ACID COMPLEX, LIQUID	8		II		1 l	P001 IBC02		T8	TP2 TP12
VMXY	BORON TRIFLUORIDE ACETIC ACID COMPLEX, SOLID	8		II		1 kg	P002 IBC08	B2, B4		
1743	BORON TRIFLUORIDE PROPIONIC ACID COMPLEX, LIQUID	8		II		1 l	P001 IBC02		T8	TP2 TP12
WXXYZ	BORON TRIFLUORIDE PROPIONIC ACID COMPLEX, SOLID	8		II		1 kg	P002 IBC08	B2, B4		
ZABC	POTASSIUM HYDROGENDIFLUORIDE, LIQUID [SOLUTION]	8	6.1	II		1 l	P001 IBC02		T7	TP2
1805	PHOSPHORIC ACID, LIQUID	8		III		5 l	P001 IBC03 LP01		T4	TP1
XXXX	PHOSPHORIC ACID, SOLID	8		III		5 kg	P002 IBC08 LP02	B3	Note: is now an existing entry under UN 1805	
1811	POTASSIUM HYDROGENDIFLUORIDE, SOLID	8	6.1	II		1 kg	P002 IBC08	B2, B4		
ZBCD	POTASSIUM FLUORIDE, LIQUID	6.1		III		5 l	P001 IBC03 LP01		T4	TP1
1812	POTASSIUM FLUORIDE, SOLID	6.1		III		5 kg	P002 IBC08	B3		

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
XXXX	POTASSIUM FLUORIDE, LIQUID	6.1		III			P002 LP02			
1835	TETRAMETHYLAMMONIUM HYDROXIDE, LIQUID	8		II		1 l	P001 IBC02		T7	TP2
XXXX	TETRAMETHYLAMMONIUM HYDROXIDE, SOLID	8		II		1 kg	P002 IBC08	B3		
1843	AMMONIUM DINITRO-o-CRESOLATE, SOLID	6.1		II		500 g	P002 IBC08	B2, B4		
XXXX	AMMONIUM DINITRO-o-CRESOLATE, LIQUID	6.1		II		100 ml	P001 IBC02		T7	TP2
1938	BROMOACETIC ACID, SOLUTION	8		II		1 l	P001 IBC02		T7	TP2
ZCDE	BROMOACETIC ACID, SOLID	8		II		500 g	P002 IBC08	B2, B4		
2038	DINITROTOLUENES, LIQUID	6.1		II		100 ml	P001 IBC02		T7	TP2
XXXX	DINITROTOLUENES, SOLID	6.1		II		500 g	P002 IBC08	B2, B4	Note: is now an existing entry under UN 2038	
2074	ACRYLAMIDE, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3		
ZDEF	ACRYLAMIDE, SOLUTION	6.1		III		5 l	P001 IBC03			
2076	CRESOLS, LIQUID	6.1	8	II		100 ml	P001 IBC02		T7	TP2
XXXX	CRESOLS, SOLID	6.1	8	II		500 g	P002 IBC08	B2, B4	Note: is now an existing entry under UN 2076	
2077	alpha-NAPHTHYLAMINE, SOLID	6.1		III		5 kg	P002 IBC08	B3		

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
XXXX	alpha-NAPHTHYLAMINE, LIQUID	6.1		III		5 l	P001 IBC03 LP02		T3	TP1
2235	CHLOROBENZYL CHLORIDES, LIQUID	6.1		III		5 l	P001 IBC03 LP01		T4	TP1
XXXX	CHLOROBENZYL CHLORIDES, SOLID	6.1		III		5 kg	P002 IBC08	B3		
2236	3-CHLORO-4-METHYLPHENYL ISOCYANATE, LIQUID	6.1		II		100 ml	P001 IBC02			
ZEEG	3-CHLORO-4-METHYLPHENYL ISOCYANATE, SOLID	6.1		II		500 g	P002 IBC08	B2, B4		
2239	CHLOROTOLUIDINES, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3		
XXXX	CHLOROTOLUIDINES, LIQUID	6.1		III		5 l	P001 IBC03 LP01		T4	TP1
2261	XYLENOLS, SOLID	6.1		II		500 g	P002 IBC08	B2, B4		
XXXX	XYLENOLS, LIQUID	6.1		II		100 ml	P001 IBC02		T7	TP2
2306	NITROBENZOTRIFLUORIDES, LIQUID	6.1		II		100 ml	P001 IBC02		T7	TP2
XXXX	NITROBENZOTRIFLUORIDES, SOLID	6.1		II		500 g	P002 IBC08	B2, B4		
2308	NITROSYLSULPHURIC ACID, LIQUID	8		II		1 l	P001 IBC02		T8	TP2 TP12
XXXX	NITROSYLSULPHURIC ACID, SOLID	8		II		1 kg	P002 IBC08	B2, B4	Note: is now an existing entry under UN 2308	

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2315	POLYCHLORINATED BIPHENYLS, LIQUID	9		II		1 l	P906 IBC02		T4	TP1
XXXX	POLYCHLORINATED BIPHENYLS, SOLID	9		II		1 kg	P906 IBC08			
2433	CHLORONITROTOLUENES, LIQUID	6.1		III		5 l	P001 IBC03 LP01		T4	TP1
XXXX	CHLORONITROTOLUENES, LIQUID	6.1		III		5 kg	P002 IBC08 LP02	B3	Note: is now an existing entry under UN 2433	
2445	LITHIUM ALKYLs, LIQUID	4.2	4.3	I		NONE	P400		T21	TP3 TP7
XXXX	LITHIUM ALKYLs, SOLID	4.2	4.3	I		NONE	P400			
2446	NITROCRESOLS, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3		
XXXX	NITROCRESOLS, LIQUID	6.1		III		5 l	P001 IBC03			
2511	2-CHLOROPROPIONIC ACID, SOLUTION	8		III		5 l	P001 IBC03 LP01		T4	TP2
ZFGH	2-CHLOROPROPIONIC ACID, SOLID	8		III		5 kg	P002 IBC08 LP02	B3	Note: is now an existing entry under UN 2511	
ZGHI	HYDROQUINONE, SOLUTION	6.1		III		5 l	P001 IBC03 LP01	B3	T4	TP1
2662	HYDROQUINONE, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3		
2652	HEXAFLUOROACETONE HYDRATE, LIQUID	6.1		II		100 ml	P001 IBC02		T7	TP2

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
XXXX	HEXAFLUOROACETONE HYDRATE, SOLID	6.1		II		500 g	P002 IBC08	B2, B4		
2669	CHLOROCRESOLS, SOLUTION	6.1		II		100 ml	P001 IBC02		T7	TP2
XXXX	CHLOROCRESOLS, SOLID	6.1		II		500 g	P002 IBC08	B2, B4		
2730	NITROANISOLES, LIQUID	6.1		III		5 l	P001 IBC03 LP01		T4	TP1
XXXX	NITROANISOLES, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	Note: is now an existing entry under UN 2730	
2732	NITROBROMOBENZENES, LIQUID	6.1		III		5 l	P001 IBC03 LP01		T4	TP1
XXXX	NITROBROMOBENZENES, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	Note: is now an existing entry under UN 2732	
2753	N-ETHYLBENZYL TOLUIDINES, LIQUID	6.1		III		5 l	P001 IBC03 LP01		T7	TP1
XXXX	N-ETHYLBENZYL TOLUIDINES, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	Note: is now an existing entry under UN 2753	
3052	ALUMINIUM ALKYL HALIDES, LIQUID	4.2	4.3	I		NONE	P400		T21	TP2 TP7 TP9
ZHIJ	ALUMINIUM ALKYL HALIDES, SOLID	4.2	4.3	I		NONE	P404		Note: is now an existing entry under UN 3052	

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2937	alpha-METHYLBENZYL ALCOHOL, LIQUID	6.1		III		5 l	P001 IBC03 LP01		T4	TP1
XXXX	alpha-METHYLBENZYL ALCOHOL, SOLID	6.1		III		5 kg	P002 IBC08 LP02			
3052	ALUMINIUM ALKYL HALIDES, LIQUID	4.2	4.3	I		NONE	P400		T21	TP2 TP7 TP9
XXXX	ALUMINIUM ALKYL HALIDES, SOLID	4.2	4.3	I		NONE	P404		Note: is now an existing entry under UN 3052	
3172	TOXINS, EXTRACTED FROM LIVING SOURCES, LIQUID, N.O.S.	6.1		I	210 274	NONE	P001			
3172	TOXINS, EXTRACTED FROM LIVING SOURCES, LIQUID, N.O.S.	6.1		II	210 274	100 ml	P001 IBC02			
3172	TOXINS, EXTRACTED FROM LIVING SOURCES, LIQUID, N.O.S.	6.1		III	210 223 274	5 l	P001 IBC03 LP01			
ZJK	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	6.1		I	210 274	NONE	P002 IBC07	B1	Note: is now an existing entry under UN 3172	
ZJK	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	6.1		II	210 274	500 g	P002 IBC08	B2, B4	Note: is now an existing entry under UN 3172	
ZJK	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	6.1		III	210 223 274	5 kg	P002 IBC08	B3	Note: is now an existing entry under UN 3172	

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
3203	PYROPHORIC ORGANOMETALLIC COMPOUND, LIQUID, WATER-REACTIVE, N.O.S.	4.2	4.3	I	274	NONE	P400		T21	TP2 TP7 TP9
ZJKL	PYROPHORIC ORGANOMETALLIC COMPOUND, SOLID, WATER-REACTIVE, N.O.S.	4.2	4.3	I	274	NONE	P404	Note: is now an existing entry under UN 3203	T21	TP2 TP7 TP9
3245	GENETICALLY MODIFIED ORGANISMS, LIQUID	9			219	NONE	P904 IBC99			
XXXX	GENETICALLY MODIFIED ORGANISMS, SOLID	9			219	NONE	P904 IBC99			
3276	NITRILES, TOXIC, N.O.S., LIQUID	6.1		I	274	NONE	P001		T14	TP2 TP9 TP13 TP27
3276	NITRILES, TOXIC, N.O.S., LIQUID	6.1		II	274	100 ml	P001 IBC02		T11	TP2 TP27
3276	NITRILES, TOXIC, N.O.S., LIQUID	6.1		III	223 274	5 l	P001 IBC03 LP01		T7	TP1 TP28
XXXX	NITRILES, TOXIC, N.O.S., SOLID	6.1		I	274	NONE	P002 IBC07	B1		
XXXX	NITRILES, TOXIC, N.O.S., SOLID	6.1		II	274	500 g	P002 IBC08			
XXXX	NITRILES, TOXIC, N.O.S., SOLID	6.1		III	223 274	5 kg	P002 IBC08			
3278	ORGANOPHOSPHOROUS COMPOUND, TOXIC, N.O.S., LIQUID	6.1		I	43 274	NONE	P001		T14	TP2 TP9 TP13 TP27
3278	ORGANOPHOSPHOROUS COMPOUND, TOXIC, N.O.S., LIQUID	6.1		II	43 274	100 ml	P001 IBC02		T11	TP2 TP27

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
3278	ORGANOPHOSPHOROUS COMPOUND, TOXIC, N.O.S., LIQUID	6.1		III	43 223 274	5 l	P001 IBC03 LP01		T7	TP1 TP28
ZKLM	ORGANOPHOSPHOROUS COMPOUND, TOXIC, N.O.S., SOLID	6.1	now an existing entry under UN 3278	I	43 274	NONE	P002 IBC07	B1	T14	TP2 TP9 TP27
ZKLM	ORGANOPHOSPHOROUS COMPOUND, TOXIC, N.O.S., SOLID	6.1	now an existing entry under UN 3278	II	43 274	500 g	P002 IBC08	B2, B4	T11	TP2 TP27
ZKLM	ORGANOPHOSPHOROUS COMPOUND, TOXIC, N.O.S., SOLID	6.1	now an existing entry under UN 3278	III	43 223 274	5 kg	P002 IBC08 LP02	B3	T7	TP1 TP28
3280	ORGANOARSENIC COMPOUND, N.O.S., LIQUID	6.1		I	274	NONE	P001		T14	TP2 TP9 TP13 TP27
3280	ORGANOARSENIC COMPOUND, N.O.S., LIQUID	6.1		II	274	100 ml	P001 IBC02		T11	TP2 TP27
3280	ORGANOARSENIC COMPOUND, N.O.S., LIQUID	6.1		III	223 274	5 l	P001 IBC03 LP01		T7	TP1 TP28
ZLMN	ORGANOARSENIC COMPOUND, N.O.S., SOLID	6.1		I	274	NONE	P002 IBC07	B1	now an existing entry under UN 3280	

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
ZLMN	ORGANOARSENIC COMPOUND, N.O.S., SOLID	6.1		II	274	500 g	P002 IBC08	B2, B4	now an existing entry under UN 3280	
ZLMN	ORGANOARSENIC COMPOUND, N.O.S., SOLID	6.1		III	223 274	5 kg	P002 IBC08 LP02	B3	now an existing entry under UN 3280	
3281	METAL CARBONYLS, N.O.S., LIQUID	6.1		I	274	NONE	P601		T14	TP2 TP9 TP13 TP27
3281	METAL CARBONYLS, N.O.S., LIQUID	6.1		II	274	100 ml	P001 IBC02		T11	TP2 TP27
3281	METAL CARBONYLS, N.O.S., LIQUID	6.1		III	223 274	5 l	P001 IBC02 LP01		T7	TP1 TP28
ZMNO	METAL CARBONYLS, N.O.S., SOLID	6.1		I	274	NONE	P002 IBC07	B1	now an existing entry under UN 3281	
ZMNO	METAL CARBONYLS, N.O.S., SOLID	6.1		II	274	500 g	P002 IBC08	B2, B4	now an existing entry under UN 3281	
ZMNO	METAL CARBONYLS, N.O.S., SOLID	6.1		III	223 274	5 kg	P002 IBC08 LP02	B3	now an existing entry under UN 3281	
3282	ORGANOMETALLIC COMPOUND, TOXIC, N.O.S., LIQUID	6.1		I	274	NONE/100 ml/5 l	P001		T14/T11/T7	TP2 TP9 TP13 TP27

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
3282	ORGANOMETALLIC COMPOUND, TOXIC, N.O.S., LIQUID	6.1		II	274	100 ml	P001 IBC02		T11	TP2 TP27
3282	ORGANOMETALLIC COMPOUND, TOXIC, N.O.S., LIQUID	6.1		III	223 274	5 l	P001 IBC03 LP01		T7	TP1 TP28
ZNOP	ORGANOMETALLIC COMPOUND, TOXIC, N.O.S., SOLID	6.1		I	274	NONE	P002 IBC07	B1	now an existing entry under UN 3282	
ZNOP	ORGANOMETALLIC COMPOUND, TOXIC, N.O.S., SOLID	6.1		II	274	500 g	P002 IBC08	B2, B4	now an existing entry under UN 3282	
ZNOP	ORGANOMETALLIC COMPOUND, TOXIC, N.O.S., SOLID	6.1		III	223 274	5 kg	P002 IBC08 LP02	B3	now an existing entry under UN 3282	
3283	SELENIUM COMPOUNDS, SOLID	6.1		I		NONE	P002 IBC07	B1		
3283	SELENIUM COMPOUNDS, SOLID	6.1		II		500 g	P002 IBC08	B2, B4		
3283	SELENIUM COMPOUNDS, SOLID	6.1		III	223	5 kg	P002 IBC08 LP02	B3		
XXXX	SELENIUM COMPOUNDS, LIQUID	6.1		I		NONE	P001		T14	TP2 TP9 TP27
XXXX	SELENIUM COMPOUNDS, LIQUID	6.1		II		500 ml	P001 IBC02		T11	TP2 TP27
XXXX	SELENIUM COMPOUNDS, LIQUID	6.1		III	223	5 l	P001 IBC03		T7	TP1 TP28
3315	CHEMICAL SAMPLE, TOXIC, LIQUID	6.1		I	250	NONE	P099			

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks	
							Packing instruction	Special provisions	Portable tank instructions	Portable tank special instructions
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
ZOPQ	CHEMICAL SAMPLE, TOXIC, SOLID	6.1		I	250	NONE	P099	now an existing entry under UN 3315		