

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-seventh session
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Item 6 of the provisional agenda

LISTING, CLASSIFICATION AND PACKING

Provisions for the transport of solid substances in bulk containers - Revised rationalised approach -

Transmitted by the International Council of Chemical Associations (ICCA)

1. BACKGROUND

Provisions for the use of bulk containers for the transport of solid substances in bulk were included in a new chapter 4.3 of the thirteenth revised edition of the UN Model Regulations.

At the same time two new bulk container codes (BK1 for transport in sheeted bulk containers and BK2 for transport in closed bulk containers) were added in column 6 of the Dangerous Goods List for some 25 UN entries.

These provisions were the result of a series of discussions, which started with document ST/SG/AC.10/C.3/1999/92 (Germany), followed by documents ST/SG/AC.10/C.3/2001/37 (UK and Germany) and ST/SG/AC.10/C.3/2002/29 (United Kingdom and Germany) (and UN/SCETDG/21/INF.66) before they were finally adopted in the 21st session in July 2002.

During these discussions, ICCA promised to present in the biennium (2003-2004) a proposal for a rationalised approach for the assignment of bulk container codes to extend the number of substances involved (ST/SG/AC.10/C.3/40 para 37).

The proposed approach (ST/SG/AC.10/C.3/2004/42) which primary based on the previous documents on this issue, as well as on the rationalised approach for assignment of tank instructions for solids was discussed in the Sub-Committee Meeting, 25th session, July 2004. Several experts considered that the fact that substances are allowed for carriage in bulk in tanks is not a sufficient justification for allowing their carriage in bulk containers, which do not present the same safety guarantees as portable tanks and packagings. Some experts could agree that a less restrictive approach could be envisaged and made reference to the criteria for the use of flexible IBCs.

ICCA withdrew its proposal and would introduce a revised proposal, taking into account the comments and suggestions made.

2. INTRODUCTION

As a result of the discussion ICCA took into consideration the solid substances that are currently being allowed to be transported in flexible IBCs i.e. substances with Packing Instruction IBC08 in column 8 of the Dangerous Goods List:

However, in case of an accidental spillage, the potential quantity released from a Bulk Container is much bigger than with FIBCs. Therefore, a number of additional restrictions should apply for the assignment of bulk container codes in column 10 of the Dangerous Goods List:

- Only solid substances of PG III
- No solids of classes 1, 5.2, 6.2, and 7
- No solids which are not allowed to be transported in portable tanks i.e. without a Portable Tank Instruction in column 10 of the Dangerous Goods List

The following allocation of the two bulk container codes BK1 (sheeted bulk container) or BK2 (closed bulk container) is proposed:

- Class 4.1: BK1, BK2 with subsidiary risk: BK2 only
- Class 4.2: BK2
- Class 4.3: BK2
- Class 5.1: BK1, BK2 with subsidiary risk: BK2 only
- Class 6.1: BK2
- Class 8: BK2
- Class 9: BK1, BK2

Annex 1 provides an overview of the UN numbers, which meet the criteria, and shows the proposed allocation of BK codes. The UN numbers, to which BK codes have already been allocated in the UN Model Regulations, have been highlighted (these allocations would of course remain unchanged).

Annex 2 provides the same information but in more details

3. PROPOSAL

The following changes in Column 10 of the Dangerous Goods List in Chapter 3.2 are proposed:

1. Solids with UN numbers as listed in the Annex 1 should be permitted to be transported in bulk container by adding BK2 or BK1 & BK2 in column 10, as listed in Annex 2.
2. The allocation of bulk container codes to UN number 3170 should remain unchanged (class 4.3, PG. III: although this rationalised approach would allocate code BK 2 only, the current allocation of BK1 & BK2 should remain unchanged).

ICCA is not requesting the UNSCETDG meeting to make a decision on this proposal but invites the comments from delegates, in order to allow ICCA to make a revised proposal at the December meeting, taking into account the comments made.

4. JUSTIFICATION

The solids proposed for transport in bulk containers are already permitted for the transport in flexible IBC.

Taking into account that the provisions of the chapters 4.3 and 6.8 have to be complied with, and taking into account the proposed additional restrictions, ICCA is of the opinion that the transport of these substances in bulk can be carried safely.

Annex 1
List of UN numbers concerned

Class	Sub.PG	Proposed risk	Apply to UN numbers BK code(s)	(xxxx: already permitted in BK1 and /or BK2)
4.1	III	BK1, BK2	1309, 1312, 1325, 1328, 1332, 1334, 1338, 1346, 1350, 1869, 2001, 2213, 2538, 2687, 2717, 2878, 2989, 3178, 3181	
4.2	III	BK2	1361, 1362, 1363, 1364, 1365, 1373, 1376, 1932, 2008, 2545, 2546, 2881, 3088, 3174, 3189, 3190, 3205, 3313, 3341, 3342, 3400	
4.2	6.1	III	BK2	3128, 3191
4.2	8	III	BK2	3126, 3192, 3206
4.3	III	BK2	1396, 1398, 1403, 1405, 1435, 2813, 2844, 2950, 2968, 3170*, 3208	
				<i>* UN 3170 has currently BK1, BK2 (to remain)</i>
4.3	4.2	III	BK2	1418, 1436, 3135, 3209
4.3	6.1	III	BK2	1408, 3134
4.3	8	III	BK2	3131
5.1	III	BK1, BK2	1438, 1444, 1451, 1454, 1458, 1459, 1465, 1466, 1467, 1474, 1477, 1479, 1481, 1482, 1483, 1486, 1492, 1498, 1499, 1505, 1507, 1872, 1942, 2067, 2469, 2720, 2722, 2724, 2725, 2726, 2728, 2880, 3215, 3377, 3378	
5.1	6.1	III	BK2	1500, 3087
5.1	8	III	BK2	1511, 3085
6.1	III	BK2	1544, 1548, 1549, 1550, 1551, 1557, 1564, 1566, 1579, 1588, 1601, 1616, 1655, 1663, 1673, 1690, 1709, 1812, 1884, 2020, 2025, 2026, 2074, 2077, 2233, 2237, 2239, 2291, 2446, 2473, 2505, 2512, 2516, 2570, 2588, 2651, 2655, 2659, 2660, 2674, 2713, 2716, 2729, 2757, 2759, 2761, 2763, 2771, 2775, 2777, 2779, 2781, 2783, 2786, 2811, 2853, 2854, 2855, 2856, 2862, 2871, 2875, 2876, 3027, 3143, 3146, 3283, 3284, 3285, 3288, 3345, 3349, 3427, 3438, 3439, 3457, 3458, 3459, 3460, 3462, 3464, 3465, 3466, 3467	
8	III	BK2	1740, 1759, 1773, 1907, 1910, 2214, 2215, 2280, 2331, 2430, 2440, 2475, 2503, 2507, 2508, 2578, 2579, 2585, 2698, 2802, 2812, 2823, 2834, 2865, 2869, 2905, 2967, 3147, 3253, 3259, 3260, 3261, 3262, 3263, 3453	
8	6.1	III	BK2	2923
9	III	BK1, BK2	1841, 1931, 2071, 2211, 2216, 2590, 3077, 3314	

Annex 2

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1309	ALUMINIUM POWDER, COATED	4.1		III	223	5 kg	P002 IBC08 LP02	PP11 B3	T1 <u>BK1</u> <u>BK2</u>	TP33
1312	BORNEOL	4.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
1325	FLAMMABLE SOLID, ORGANIC, N.O.S.	4.1		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
1328	HEXAMETHYLENETETRAMINE	4.1		III		5 kg	P002 IBC08	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
1332	METALDEHYDE	4.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
1334	NAPHTHALENE, CRUDE or NAPHTHALENE, REFINED	4.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1338	PHOSPHORUS, AMORPHOUS	4.1		III		5 kg	P410 IBC08	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
1346	SILICON POWDER, AMORPHOUS	4.1		III	32	5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
1350	SULPHUR	4.1		III	242	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1869	MAGNESIUM or MAGNESIUM ALLOYS with more than 50% magnesium in pellets, turnings or ribbons	4.1		III	59	5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2001	COBALT NAPHTHENATES, POWDER	4.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2213	PARAFORMALDEHYDE	4.1		III		5 kg	P002 IBC08 LP02	PP12 B3	T1 BK1 BK2	TP33
2538	NITRONAPHTHALENE	4.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2687	DICYCLOHEXYLAMMONIUM NITRITE	4.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2717	CAMPHOR, synthetic	4.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2878	TITANIUM SPONGE GRANULES or TITANIUM SPONGE POWDERS	4.1		III	223	5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2989	LEAD PHOSPHITE, DIBASIC	4.1		III	223	5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
3178	FLAMMABLE SOLID, INORGANIC, N.O.S.	4.1		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
3181	METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.	4.1		III	223274	5 kg	P002IBC08LP02	B3	T1 <u>BK1BK2</u>	TP33
1361	CARBON, animal or vegetable origin	4.2		III	223	NONE	P002 IBC08 LP02	PP12 B3	T1 <u>BK2</u>	TP33
1362	CARBON, ACTIVATED	4.2		III	223	NONE	P002 IBC08 LP02	PP11 B3	T1 <u>BK2</u>	TP33
1363	COPRA	4.2		III	29	NONE	P003 IBC08 LP02	PP20 B3, B6	T1 <u>BK2</u>	
1364	COTTON WASTE, OILY	4.2		III		NONE	P003 IBC08 LP02	PP19 B3, B6	T1 <u>BK2</u>	
1365	COTTON, WET	4.2		III	29	NONE	P003 IBC08 LP02	PP19 B3, B6	T1 <u>BK2</u>	
1373	FIBRES or FABRICS, ANIMAL or VEGETABLE or SYNTHETIC, N.O.S. with oil	4.2		III		NONE	P410 IBC08	B3	T1 <u>BK2</u>	TP33
1376	IRON OXIDE, SPENT or IRON SPONGE, SPENT obtained from coal gas purification	4.2		III	223	NONE	P002 IBC08 LP02	B3	T1 BK2	TP33
1932	ZIRCONIUM SCRAP	4.2		III	223	NONE	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
2008	ZIRCONIUM POWDER, DRY	4.2		III	223	NONE	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
2545	HAFNIUM POWDER, DRY	4.2		III	223	NONE	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
2546	TITANIUM POWDER, DRY	4.2		III	223	NONE	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
2881	METAL CATALYST, DRY	4.2		III	223	NONE	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
3088	SELF-HEATING SOLID, ORGANIC, N.O.S.	4.2		III	223 274	NONE	P002 IBC08 LP02	B3	T1 BK2	TP33
3174	TITANIUM DISULPHIDE	4.2		III		NONE	P002 IBC08 LP02	B3	T1 BK2	TP33
3189	METAL POWDER, SELF-HEATING, N.O.S.	4.2		III	223 274	NONE	P002 IBC08 LP02	B3	T1 BK2	TP33
3190	SELF-HEATING SOLID, INORGANIC, N.O.S.	4.2		III	223 274	NONE	P002 IBC08 LP02	B3	T1 BK2	TP33
3205	ALKALINE EARTH METAL ALCOHOLATES, N.O.S.	4.2		III	183 223 274	NONE	P002 IBC08 LP02	B3	T1 BK2	TP33
3313	ORGANIC PIGMENTS, SELF-HEATING	4.2		III	223	NONE	P002IBC08LP02	B3	T1 BK2	TP33
3341	THIOUREA DIOXIDE	4.2		III	223	NONE	P002 IBC08 LP02	B3	T1 BK2	TP33
3342	XANTHATES	4.2		III	223	NONE	P002 IBC08 LP02	B3	T1 BK2	TP33
3400	ORGANOMETALLIC SUBSTANCE, SOLID, SELF-HEATING	4.2		III	223 274	1 kg	P002 IBC08		T1 BK2	TP33
3128	SELF-HEATING SOLID, TOXIC, ORGANIC, N.O.S.	4.2	6.1	III	223 274	NONE	P002 IBC08	B3	T1 BK2	TP33
3191	SELF-HEATING SOLID, TOXIC, INORGANIC, N.O.S.	4.2	6.1	III	223 274	NONE	P002 IBC08	B3	T1 BK2	TP33
3126	SELF-HEATING SOLID, CORROSIVE, ORGANIC, N.O.S.	4.2	8	III	223 274	NONE	P002 IBC08	B3	T1 BK2	TP33
3192	SELF-HEATING SOLID, CORROSIVE, INORGANIC, N.O.S.	4.2	8	III	223 274	NONE	P002 IBC08	B3	T1 BK2	TP33
3206	ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S.	4.2	8	III	182 223 274	NONE	P002 IBC08	B3	T1 BK2	TP33
1396	ALUMINIUM POWDER, UNCOATED	4.3		III	223	1 kg	P410 IBC08	B4	T1 BK2	TP33
1398	ALUMINIUM SILICON POWDER, UNCOATED	4.3		III	37 223	1 kg	P410 IBC08	B4	T1 BK2	TP33
1403	CALCIUM CYANAMIDE with more than 0.1% calcium carbide	4.3		III	38	1 kg	P410 IBC08	B4	T1 BK2	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1405	CALCIUM SILICIDE	4.3		III	223	1 kg	P410 IBC08	B4	T1 BK2	TP33
1435	ZINC ASHES	4.3		III	223	1 kg	P002 IBC08	B4	T1 BK2	TP33
2813	WATER-REACTIVE SOLID, N.O.S.	4.3		III	223 274	1 kg	P410 IBC08	PP83 B4	T1 BK2	TP33
2844	CALCIUM MANGANESE SILICON	4.3		III		1 kg	P410 IBC08	B2, B4	T1 BK2	TP33
2950	MAGNESIUM GRANULES, COATED, particle size not less than 149 microns	4.3		III		1 kg	P410 IBC08	B4	T1 BK2	TP33
2968	MANEB, STABILIZED or MANEB PREPARATION, STABILIZED against self-heating	4.3		III	223	1 kg	P002 IBC08	B4	T1 BK2	TP33
3170	ALUMINIUM SMELTING BY-PRODUCTS or ALUMINIUM REMELTING BY-PRODUCTS	4.3		III	223 244	1 kg	P002 IBC08	B4	T1 BK1 BK2	TP33
3208	METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S.	4.3		III	223 274	1 kg	P410 IBC08	B4	T1 BK2	TP33
1418	MAGNESIUM POWDER or MAGNESIUM ALLOYS POWDER	4.3	4.2	III	223	NONE	P410 IBC08	B4	T1 BK2	TP33
1436	ZINC POWDER or ZINC DUST	4.3	4.2	III	223	NONE	P410IBC08	B4	T1 BK2	TP33
3135	WATER-REACTIVE SOLID, SELF-HEATING, N.O.S.	4.3	4.2	III	223 274	NONE	P410 IBC08	B4	T1 BK2	TP33
3209	METALLIC SUBSTANCE, WATER-REACTIVE, SELF-HEATING, N.O.S.	4.3	4.2	III	223 274	NONE	P410 IBC08	B4	T1 BK2	TP33
1408	FERROSILICON with 30% or more but less than 90% silicon	4.3	6.1	III	39 223	1 kg	P003 IBC08	PP20 B4, B6	T1 BK2	TP33
3134	WATER-REACTIVE SOLID, TOXIC, N.O.S.	4.3	6.1	III	223 274	1 kg	P410 IBC08	B4	T1 BK2	TP33
3131	WATER-REACTIVE SOLID, CORROSIVE, N.O.S.	4.3	8	III	223 274	1 kg	P410 IBC08	B4	T1 BK2	TP33
1438	ALUMINIUM NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1444	AMMONIUM PERSULPHATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1451	CAESIUM NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1454	CALCIUM NITRATE	5.1		III	208	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1458	CHLORATE AND BORATE MIXTURE	5.1		III	223	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1459	CHLORATE AND MAGNESIUM CHLORIDE MIXTURE, SOLID	5.1		III	223	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1465	DIDYMIUM NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1466	FERRIC NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1467	GUANIDINE NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1474	MAGNESIUM NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1477	NITRATES, INORGANIC, N.O.S.	5.1		III	223	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1479	OXIDIZING SOLID, N.O.S.	5.1		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1481	PERCHLORATES, INORGANIC, N.O.S.	5.1		III	223	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1482	PERMANGANATES, INORGANIC, N.O.S.	5.1		III	206 223	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1483	PEROXIDES, INORGANIC, N.O.S.	5.1		III	223	5 kg	P002IBC08LP02	B3	T1 BK1BK2	TP33
1486	POTASSIUM NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1492	POTASSIUM PERSULPHATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1498	SODIUM NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1499	SODIUM NITRATE AND POTASSIUM NITRATE MIXTURE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1505	SODIUM PERSULPHATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1507	STRONTIUM NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
1872	LEAD DIOXIDE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
1942	AMMONIUM NITRATE, with not more than 0.2% total combustible material, including any organic substance, calculated as carbon to the exclusion of any other added substance.	5.1		III	306	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
2067	AMMONIUM NITRATE BASED FERTILIZER	5.1		III	186 306 307	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
2469	ZINC BROMATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2720	CHROMIUM NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2722	LITHIUM NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2724	MANGANESE NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2725	NICKEL NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2726	NICKEL NITRITE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2728	ZIRCONIUM NITRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
2880	CALCIUM HYPOCHLORITE, HYDRATED or CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, with not less than 5.5% but not more than 16% water	5.1		III	223 313 314	5 kg	P002IBC08	PP85B4	T1 <u>BK1BK2</u>	
3215	PERSULPHATES, INORGANIC, N.O.S.	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK1</u> <u>BK2</u>	TP33
3377	SODIUM PERBORATE MONOHYDRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
3378	SODIUM CARBONATE PEROXYHYDRATE	5.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	TP33
1500	SODIUM NITRITE	5.1	6.1	III		5 kg	P002 IBC08	B3	T1 <u>BK2</u>	TP33
3087	OXIDIZING SOLID, TOXIC, N.O.S.	5.1	6.1	III	223 274	5 kg	P002 IBC08	B3	T1 <u>BK2</u>	TP33
1511	UREA HYDROGEN PEROXIDE	5.1	8	III		5 kg	P002 IBC08	B3	T1 <u>BK2</u>	TP33
3085	OXIDIZING SOLID, CORROSIVE, N.O.S.	5.1	8	III	223 274	5 kg	P002 IBC08	B3	T1 <u>BK2</u>	TP33
1544	ALKALOIDS, SOLID, N.O.S. or ALKALOID SALTS, SOLID, N.O.S.	6.1		III	43 223 274	5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
1548	ANILINE HYDROCHLORIDE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
1549	ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.	6.1		III	45	5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
1550	ANTIMONY LACTATE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
1551	ANTIMONY POTASSIUM TARTRATE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
1557	ARSENIC COMPOUND, SOLID, N.O.S., inorganic, including: Arsenates, n.o.s.; Arsenites, n.o.s.; and Arsenic sulphides, n.o.s.	6.1		III	43 223	5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
1564	BARIUM COMPOUND, N.O.S.	6.1		III	177 223	5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
1566	BERYLLIUM COMPOUND, N.O.S.	6.1		III	223	5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
1579	4-CHLORO-o-TOLUIDINE HYDROCHLORIDE, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
1588	CYANIDES, INORGANIC, SOLID, N.O.S.	6.1		III	47 223 274	5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33
1601	DISINFECTANT, SOLID, TOXIC, N.O.S.	6.1		III	274	5 kg	P002IBC08LP02	B3	T1 <u>BK2</u>	TP33
1616	LEAD ACETATE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 <u>BK2</u>	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks and bulk containers	Special provisions
							Packing instruction	Special packing provisions	Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1655	NICOTINE COMPOUND, SOLID, N.O.S. or NICOTINE PREPARATION, SOLID, N.O.S.	6.1		III	43 223	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1663	NITROPHENOLS (o-, m-, p-)	6.1		III	279	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1673	PHENYLENEDIAMINES (o-, m-, p-)	6.1		III	279	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1690	SODIUM FLUORIDE, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1709	2,4-TOLUYLENEDIAMINE, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1812	POTASSIUM FLUORIDE, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1884	BARIUM OXIDE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2020	CHLOROPHENOLS, SOLID	6.1		III	205	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2025	MERCURY COMPOUND, SOLID, N.O.S.	6.1		III	43 66 223	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2026	PHENYLMERCURIC COMPOUND, N.O.S.	6.1		III	43 223	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2074	ACRYLAMIDE, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2077	alpha-NAPHTHYLAMINE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2233	CHLOROANISIDINES	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2237	CHLORONITROANILINES	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2239	CHLOROTOLUIDINES, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2291	LEAD COMPOUND, SOLUBLE, N.O.S.	6.1		III	199	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2446	NITROCRESOLS, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2473	SODIUM ARSANILATE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2505	AMMONIUM FLUORIDE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2512	AMINOPHENOLS (o-, m-, p-)	6.1		III	279	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2516	CARBON TETRABROMIDE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2570	CADMIUM COMPOUND	6.1		III	223	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2588	PESTICIDE, SOLID, TOXIC, N.O.S.	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2651	4,4'-DIAMINODIPHENYL- METHANE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2655	POTASSIUM FLUOROSILICATE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2659	SODIUM CHLOROACETATE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2660	NITROTOLUIDINES (MONO)	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2674	SODIUM FLUOROSILICATE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2713	ACRIDINE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2716	1,4-BUTYNE DIOL	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2729	HEXACHLOROBENZENE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2757	CARBAMATE PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2759	ARSENICAL PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2761	ORGANOCHLORINE PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2763	TRIAZINE PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08	B3	T1 BK2	TP33
2771	THIOCARBAMATE PESTICIDE, SOLID, TOXIC	6.1		III	61223274	5 kg	P002IBC08LP02	B3	T1 BK2	TP33
2775	COPPER BASED PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2777	MERCURY BASED PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2779	SUBSTITUTED NITROPHENOL PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2781	BIPYRIDILUM PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2783	ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2786	ORGANOTIN PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2811	TOXIC SOLID, ORGANIC, N.O.S.	6.1		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2853	MAGNESIUM FLUOROSILICATE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2854	AMMONIUM FLUOROSILICATE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2855	ZINC FLUOROSILICATE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2856	FLUOROSILICATES, N.O.S.	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2862	VANADIUM PENTOXIDE, non-fused form	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2871	ANTIMONY POWDER	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2875	HEXACHLOROPHENE	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2876	RESORCINOL	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3027	COUMARIN DERIVATIVE PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3143	DYE, SOLID, TOXIC, N.O.S. or DYE INTERMEDIATE, SOLID, TOXIC, N.O.S.	6.1		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3146	ORGANOTIN COMPOUND, SOLID, N.O.S.	6.1		III	43 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3283	SELENIUM COMPOUND, SOLID, N.O.S.	6.1		III	223	5 kg	P002IBC08LP02	B3	T1 BK2	TP33
3284	TELLURIUM COMPOUND, N.O.S.	6.1		III	223	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3285	VANADIUM COMPOUND, N.O.S.	6.1		III	223	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3288	TOXIC SOLID, INORGANIC, N.O.S.	6.1		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3345	PHENOXYACETIC ACID DERIVATIVE PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3349	PYRETHROID PESTICIDE, SOLID, TOXIC	6.1		III	61 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3427	CHLOROBENZYL CHLORIDES, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3438	alpha-METHYLBENZYL ALCOHOL, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3439	NITRILES, TOXIC, SOLID, N.O.S.	6.1		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3457	CHLORONITROTOLUENES, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33

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							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
3458	NITROANISOLE, SOLID	6.1		III	279	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3459	NITROBROMOBENZENES, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3460	N-ETHYLBENZYL TOLUIDINES, SOLID	6.1		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3462	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.	6.1		III	210 223 274	5 kg	P002 IBC08	B3	T1 BK2	TP33
3464	ORGANOPHOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S.	6.1		III	43 223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3465	ORGANOARSENIC COMPOUND, SOLID, N.O.S.	6.1		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3466	METAL CARBONYLS, SOLID, N.O.S.	6.1		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3467	ORGANOMETALLIC COMPOUND, TOXIC, SOLID, N.O.S.	6.1		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1740	HYDROGEN DIFLUORIDES, SOLID, N.O.S.	8		III	223	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1759	CORROSIVE SOLID, N.O.S.	8		III	223/274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1773	FERRIC CHLORIDE, ANHYDROUS	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1907	SODA LIME with more than 4% sodium hydroxide	8		III	62	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
1910	CALCIUM OXIDE	8		III	106	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2214	PHTHALIC ANHYDRIDE with more than 0.05% of maleic anhydride	8		III	169	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2215	MALEIC ANHYDRIDE	8		III		5 kg	P002 IBC08	B3	T1 BK2	TP33
2280	HEXAMETHYLENEDIAMINE, SOLID	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2331	ZINC CHLORIDE, ANHYDROUS	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33

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							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2430	ALKYLPHENOLS, SOLID, N.O.S. (including C2-C12 homologues)	8		III	223	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2440	STANNIC CHLORIDE PENTAHYDRATE	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2475	VANADIUM TRICHLORIDE	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2503	ZIRCONIUM TETRACHLORIDE	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2507	CHLOROPLATINIC ACID, SOLID	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2508	MOLYBDENUM PENTACHLORIDE	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2578	PHOSPHORUS TRIOXIDE	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2579	PIPERAZINE	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2585	ALKYLSULPHONIC ACIDS, SOLID or ARYLSULPHONIC ACIDS, SOLID with not more than 5% free sulphuric acid	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2698	TETRAHYDROPHTHALIC ANHYDRIDES with more than 0.05% of maleic anhydride	8		III	29 169	5 kg	P002 IBC08 LP02	PP14 B3	T1 BK2	TP33
2802	COPPER CHLORIDE	8		III		5 kg	P002IBC08LP02	B3	T1 BK2	TP33
2812	SODIUM ALUMINATE, SOLID	8		III	106	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2823	CROTONIC ACID, SOLID	8		III		5 kg	P002 IBC08 LP02		T1 BK2	TP33
2834	PHOSPHOROUS ACID	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2865	HYDROXYLAMINE SULPHATE	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2869	TITANIUM TRICHLORIDE MIXTURE	8		III	223	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs		Portable tanks and bulk containers	Special provisions
							Packing instruction	Special packing provisions	Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2905	CHLOROPHENOLATES, SOLID or PHENOLATES, SOLID	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
2967	SULPHAMIC ACID	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3147	DYE, SOLID, CORROSIVE, N.O.S. or DYE INTERMEDIATE, SOLID, CORROSIVE, N.O.S.	8		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3253	DISODIUM TRIOXOSILICATE	8		III		5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3259	AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S.	8		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3260	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	8		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3261	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.	8		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3262	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.	8		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3263	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.	8		III	223 274	5 kg	P002 IBC08 LP02	B3	T1 BK2	TP33
3453	PHOSPHORIC ACID, SOLID	8		III		5 kg	P002 IBC08 LP01	B3	T1 BK2	TP33
2923	CORROSIVE SOLID, TOXIC, N.O.S.	8	6.1	III	223 274	5 kg	P002 IBC08	B3	T1 BK2	TP33
1841	ACETALDEHYDE AMMONIA	9		III		5 kg	P002 IBC08 LP01	B3, B6	T1 BK1 BK2	TP33
1931	ZINC DITHIONITE (ZINC HYDROSULPHITE)	9		III		5 kg	P002IBC08LP02	B3	T1 BK1BK2	TP33
2071	AMMONIUM NITRATE BASED FERTILIZER	9		III	186 193	5 kg	P002 IBC08 LP02	B3	T1 BK1 BK2	
2211	POLYMERIC BEADS, EXPANDABLE, flammable vapour evolving	9		III	207	5 kg	P002 IBC08	PP14 B3, B6	T1 BK1 BK2	TP33
2216	FISH MEAL (FISH SCRAP), STABILIZED	9		III	29 117 300 308	NONE	P900 IBC08	B3	T1 BK1 BK2	TP33

UN No.	Name and description	Class or division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBCs	Special packing provisions	Portable tanks and bulk containers	Special provisions
							Packing instruction		Instructions	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2590	WHITE ASBESTOS (chrysotile, actinolite, anthophyllite, tremolite)	9		III	168	NONE	P002 IBC08	PP37 B2, B3	T1 <u>BK1</u> <u>BK2</u>	TP33
3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	9		III	179 274	5 kg	P002 IBC08 LP02	PP12 B3	T1 <u>BK1</u> <u>BK2</u>	TP33
3314	PLASTICS MOULDING COMPOUND in dough, sheet or extruded rope form evolving flammable vapour	9		III	207	5 kg	P002 IBC08	PP14 B3, B6	T1 <u>BK1</u> <u>BK2</u>	