

Table 1 – Numerical list of dangerous goods (continued)

UN no.	Name and description	Class or division	Sub-sidiary risk	UN packing group	Special provisions	Limited quantities and excepted quantities		Packagings and IBCs		Portable tanks and bulk containers		Hazchem code	HSNO approval no.	Properties and observations
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2470	PHENYLACETONITRILE, LIQUID	6.1		III		5 L	E1	P001 IBC03 LP01		T4	TP1	2X	004363	Colourless to light brown liquid. Immiscible with water. Harmful if swallowed, by skin contact or by inhalation.
2471	OSMIUM TETROXIDE	6.1	(P)	I		0	E5	P002 IBC07	PP30 B1	T6	TP33	2X	002793	Pale yellow, crystalline, volatile substance with an irritating odour. Highly toxic if swallowed, by skin contact or by inhalation. Severely irritating to eyes and mucous membranes.
2473	SODIUM ARSANILATE	6.1		III		5 kg	E1	P002 IBC08 LP02	B3	T1	TP33	2Z		White crystalline powder. Soluble in water. Harmful if swallowed or by dust inhalation.
2474	THIOPHOSGENE	6.1		I	354	0	E0	P602		T20	TP2 TP13 TP37	2X	003934	Red fuming liquid with a foul odour similar to phosgene. Boiling point: 74°C. Decomposes slowly in water. Reacts with acids, evolving toxic and corrosive fumes. Toxic if swallowed, by skin contact or by inhalation.
2475	VANADIUM TRICHLORIDE	8		III		5 kg	E1	P002 IBC08 LP02	B3	T1	TP33	2X	005075	Pink, deliquescent crystals. Decomposed in water, evolving hydrogen chloride, a corrosive gas apparent as white fumes. In the presence of moisture, highly corrosive to most metals. Toxic if swallowed. Irritating to skin, eyes and mucous membranes.
2477	METHYL ISOTHIOCYANATE	6.1	3	I	354	0	E0	P602		T20	TP2 TP13 TP37	3WE	001541	Colourless liquid with an irritating odour. Immiscible with water. When heated to decomposition evolves cyanides. Toxic if swallowed, by inhalation or by skin contact. Vapour and liquid are severely irritating to skin, eyes and mucous membranes.
2478	ISOCYANATES, FLAMMABLE, TOXIC, N.O.S. or ISOCYANATE SOLUTION, FLAMMABLE, TOXIC, N.O.S.	3	6.1	II	274	1 L	E2	P001 IBC02		T11	TP2 TP13 TP27	3WE		Liquids with a pungent odour. Immiscible with water but react with it to form carbon dioxide. Toxic if swallowed, by inhalation or by skin contact. Vapour and liquid are severely irritating to skin, eyes and mucous membranes.
		3	6.1	III	223 274	5 L	E1	P001 IBC03		T7	TP1 TP13 TP28	3W		

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2480	METHYL ISOCYANATE	6.1	3	I	354	0	E0	P601		T22	TP2 TP13	3WE		Liquid with a pungent odour. Boiling point: 38°C (pure product). Vapour denser than air. Immiscible with water but reacts violently with it. May cause explosion. When heated above boiling point, or on contact with water or acids, evolves highly toxic nitric fumes. Toxic if swallowed, by inhalation or by skin contact. Vapour and liquid are severely irritating to skin eyes and mucous membranes. Firefighting: use carbon dioxide or dry chemical.
2481	ETHYL ISOCYANATE	6.1	3	I	354	0	E0	P602		T20	TP2 TP13 TP37	3WE	004473	Liquid with a pungent odour. Boiling point: 60°C. Vapour much denser than air (2.4). Immiscible with water but reacts violently with it. On contact with water or acids, or when heated above boiling point, evolves highly toxic NO _x fumes. Toxic if swallowed or by inhalation. Vapour and liquid are severely irritating to skin, eyes and mucous membranes.
2482	n-PROPYL ISOCYANATE	6.1	3	I	354	0	E0	P602		T20	TP2 TP13 TP37	3WE		Liquid with a pungent odour. Immiscible with water but reacts violently with it, evolving gases. Toxic if swallowed, by inhalation or by skin contact. Vapour and liquid are severely irritating to skin, eyes and mucous membranes.
2483	ISOPROPYL ISOCYANATE	6.1	3	I	354	0	E0	P602		T20	TP2 TP13 TP37	3WE		Liquid with a pungent odour. Immiscible with water but reacts violently with it, evolving gases. Toxic if swallowed, by inhalation or by skin contact. Vapour and liquid are severely irritating to skin, eyes and mucous membranes.
2484	tert-BUTYL ISOCYANATE	6.1	3	I	354	0	E0	P602		T20	TP2 TP13 TP37	3WE		Liquid with a pungent odour. Immiscible with water but reacts violently with it, evolving gases. Toxic if swallowed, by inhalation or by skin contact. Vapour and liquid are severely irritating to skin, eyes and mucous membranes.

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2485	n-BUTYL ISOCYANATE	6.1	3	I	354	0	E0	P602		T20	TP2 TP13 TP37	3W		Colourless liquid with a pungent odour. Immiscible with water but reacts violently with it, evolving gases. Toxic if swallowed, by inhalation or by skin contact. Vapour and liquid are severely irritating to skin, eyes and mucous membranes.
2486	ISOBUTYL ISOCYANATE	6.1	3	I	354	0	E0	P602		T20	TP2 TP13 TP37	3WE		Liquid with a pungent odour. Boiling point: 60°C. Immiscible with water but reacts violently with it, evolving gases. Toxic if swallowed, by inhalation or by skin contact. Vapour and liquid are severely irritating to skin, eyes and mucous membranes.
2487	PHENYL ISOCYANATE	6.1	3	I	354	0	E0	P602		T20	TP2 TP13 TP37	3W	004628	Colourless to yellowish liquid with a pungent odour. Flash point: 51°C. Immiscible with water. Reacts with water, evolving carbon dioxide. Toxic if swallowed or by inhalation. Highly irritating to skin, eyes and mucous membranes.
2488	CYCLOHEXYL ISOCYANATE	6.1	3	I	354	0	E0	P602		T20	TP2 TP13 TP37	3W	004417	Yellowish liquid with an irritating odour. Flash point: 53°C c.c. Immiscible with water. Reacts with water, evolving carbon dioxide. Toxic if swallowed, by skin contact or by inhalation. Highly irritating to skin, eyes and mucous membranes.
2490	DICHLOROISOPROPYL ETHER	6.1		II		100 ml	E4	P001 IBC02		T7	TP2	2Z		Colourless liquid. Immiscible with water. The concentrated vapours are slightly irritating to eyes and mucous membranes.
2491	ETHANOLAMINE or ETHANOLAMINE SOLUTION	8		III	223	5 L	E1	P001 IBC03 LP01		T4	TP1	2X	002984	Colourless, moderately viscous liquid with an ammoniacal odour. The pure product is combustible. Miscible with water. Strongly alkaline. Corrosive to copper, copper compounds, copper alloys and rubber. Liquid and vapour are corrosive to skin, eyes and mucous membranes.
2493	HEXAMETHYLENEIMINE	3	8	II		1 L	E2	P001 IBC02		T7	TP1	3WE	004497	Clear colourless liquid with ammoniacal odour. Miscible with water. Toxic if swallowed, by skin contact or by vapour inhalation. Severely irritating to the skin, eyes and mucous membranes.

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2495	IODINE PENTAFLUORIDE	5.1	6.1 8	I		0	E0	P200				4WE		Colourless fuming liquid. Boiling point: 98°C. Reacts violently with water or moist air evolving highly toxic and corrosive fumes which are corrosive to glass and most metals. In contact with acids or acid fumes, evolves highly toxic fumes of iodine, fluorine and their compounds. Spontaneously combustible with all organic material. Highly toxic if swallowed or by inhalation. Both the liquid and its fumes are highly corrosive to skin, eyes and mucous membranes. SHALL NOT BE TRANSPORTED IN BULK.
2496	PROPIONIC ANHYDRIDE	8		III		5 L	E1	P001 IBC03 LP01		T4	TP1	3X	004661	Colourless, combustible liquid with a pungent odour. Reacts violently with water, forming an acid, which is highly corrosive. Harmful if swallowed or by inhalation. Corrosive to skin, eyes and mucous membranes.
2498	1,2,3,6-TETRAHYDRO-BENZALDEHYDE	3		III		5 L	E1	P001 IBC03 LP01		T2	TP1	3YE		Colourless liquid. When heated evolves acrid fumes. Immiscible with water. Firefighting: preferably foam.
2501	TRIS-(1-AZIRIDINYL) PHOSPHINE OXIDE SOLUTION	6.1		II		100 ml	E4	P001 IBC02		T7	TP2	2X		Aqueous solution. Miscible with water. Toxic if swallowed. Irritating to skin and mucous membranes. Used as a pesticide.
		6.1		III	223	5 L	E1	P001 IBC03 LP01		T4	TP1	2X		
2502	VALERYL CHLORIDE	8	3	II		1 L	E2	P001 IBC02		T7	TP2	4W	004625	Liquid with a penetrating odour. Reacts with water, evolving hydrogen chloride, a corrosive gas apparent as white fumes. Corrosive to most metals. Vapour irritates mucous membranes.
2503	ZIRCONIUM TETRACHLORIDE	8		III		5 kg	E1	P002 IBC08 LP02	B3	T1	TP33	2X	004763	White, lustrous crystals. Reacts with water evolving hydrogen chloride, a corrosive gas apparent as white fumes. Harmful if swallowed. Irritating to eyes, skin and mucous membranes.
2504	TETRABROMOETHANE	6.1	(P)	III		5 L	E1	P001 IBC03 LP01		T4	TP1	2Z	002892	Colourless to yellowish liquid with a perceptible, camphor like odour. Harmful if swallowed, by skin contact or by inhalation.

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2505	AMMONIUM FLUORIDE	6.1		III		5 kg	E1	P002 IBC08 LP02	B3	T1	TP33	2X		Colourless crystals or powder with an ammoniacal odour. Readily soluble in water. Decomposes in the presence of acid, evolving hydrogen fluoride, a corrosive gas. Harmful if swallowed, by skin contact or by dust inhalation. Causes very severe burns to skin, eyes and mucous membranes.
2506	AMMONIUM HYDROGEN SULPHATE	8		II		1 kg	E2	P002 IBC08	B2, B4	T3	TP33	2X	006203	Soluble in water. Irritating to skin, eyes and mucous membranes. When involved in fire, evolves irritating and corrosive fumes.
2507	CHLOROPLATINIC ACID, SOLID	8		III		5 kg	E1	P002 IBC08 LP02	B3	T1	TP33	2X		Red-brown crystals, hygroscopic. Melting point: 60°C. Soluble in water.
2508	MOLYBDENUM PENTACHLORIDE	8		III		5 kg	E1	P002 IBC08 LP02	B3	T1	TP33	2X	006850	Green-black as solid or dark red as liquid or vapour. Hygroscopic. Reacts violently with water evolving hydrogen chloride, a corrosive gas apparent as white fumes. Harmful if swallowed. Dust and vapour irritate skin, eyes and mucous membranes.
2509	POTASSIUM HYDROGEN SULPHATE	8		II		1 kg	E2	P002 IBC08	B2, B4	T3	TP33	2X	004655	Soluble in water. Irritating to skin, eyes and mucous membranes. When involved in a fire, evolves extremely irritating and corrosive fumes.
2511	2-CHLOROPROPIONIC ACID	8		III	223	5 L	E1	P001 IBC03 LP01		T4	TP2	2X	002940	Crystals or a colourless, aqueous solution with a distinctive odour. Harmful if swallowed. Dust and liquid are corrosive to skin, eyes and mucous membranes.
2512	AMINOPHENOLS (o-, m-, p-)	6.1		III	279	5 kg	E1	P002 IBC08 LP02	B3	T1	TP33	2X		White or brownish (ortho- and para-) or reddish-yellow (meta-) crystals. Soluble in water. Harmful if swallowed, by skin contact or by inhalation. Irritating to skin.

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2513	BROMOACETYL BROMIDE	8		II		1 L	E2	P001 IBC02		T8	TP2	4W	004377	Clear liquid, colourless. Boiling point: 150°C. Reacts violently with water, evolving hydrogen bromide, an irritating and corrosive gas apparent as white fumes. In the presence of moisture highly corrosive to most metals. Reacts violently with alkalis such as ammonia and hydrazine. Causes very severe burns to skin, eyes and mucous membranes. Vapour is lachrymatory.
2514	BROMOBENZENE	3	(P)	III		5 L	E1	P001 IBC03 LP01		T2	TP1	2Y	005225	Colourless, mobile liquid with a characteristic odour. Immiscible with water. Harmful if swallowed or by inhalation. Irritating to skin, eyes and mucous membranes. When involved in a fire evolves highly toxic fumes.
2515	BROMOFORM	6.1	(P)	III		5 L	E1	P001 IBC03 LP01		T4	TP1	2X	002918	Colourless liquid or crystals (melting point: 9°C) with an odour similar to chloroform. Harmful if swallowed, by skin contact or by inhalation. Narcotic effect.
2516	CARBON TETRABROMIDE	6.1	(P)	III		5 kg	E1	P002 IBC08 LP02	B3	T1	TP33	2Z	002929	Colourless crystals. Melting point: 48°C. Insoluble in water. Toxic if swallowed, by skin contact or by inhalation of vapour and dusts.
2517	1-CHLORO-1,1-DIFLUOROETHANE (REFRIGERANT GAS R 142b)	2.1				0	E0	(*)		T50		2YE	000991	Flammable gas with a faint odour. Much denser than air (3.5). Refer to HSNO regulations for requirements for cylinders and other containers for gases.
2518	1,5,9-CYCLODODECATRIENE	6.1	(P)	III		5 L	E1	P001 IBC03 LP01		T4	TP1	3Z		Colourless, combustible liquid. Highly irritating to skin, eyes and mucous membranes. Can cause inflammation of and ulcers in skin.
2520	CYCLO OCTADIENES	3		III		5 L	E1	P001 IBC03 LP01		T2	TP1	3Y		Colourless liquids. Highly irritating to skin, eyes and mucous membranes.

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2521	DIKETENE, STABILIZED	6.1	3	I	354	0	E0	P602		T20	TP2 TP13 TP37	3W		Colourless liquid with a pungent odour. Vapour much denser than air (2.9). Immiscible with water. Burns skin and mucous membranes. Vapour is severely irritating to eyes and mucous membranes. Firefighting: use carbon dioxide, foam or dry chemical. Water-spray may be ineffective.
2522	2-DIMETHYL-AMINOETHYL METHACRYLATE	6.1		II		100 ml	E4	P001 IBC02		T7	TP2	2W	001558	Combustible liquid. Irritating to skin, eyes and mucous membranes.
2524	ETHYL ORTHOFORMATE	3		III		5 L	E1	P001 IBC03 LP01		T2	TP1	3Y	005493	Colourless liquid with an ethereal odour. Immiscible with water. Firefighting: use carbon dioxide, foam or dry chemical.
2525	ETHYL OXALATE	6.1		III		5 L	E1	P001 IBC03 LP01		T4	TP1	3Z	005019	Colourless, combustible, unstable, oily, aromatic liquid. Decomposed by water. Irritating to eyes, skin and mucous membranes.
2526	FURFURYLAMINE	3	8	III		5 L	E1	P001 IBC03		T4	TP1	2W	004483	Pale yellow, oily liquid. Miscible with water. Harmful if swallowed or by inhalation. Firefighting: use carbon dioxide, foam or dry chemical.
2527	ISOBUTYL ACRYLATE, STABILIZED	3		III		5 L	E1	P001 IBC03 LP01		T2	TP1	3W	001095	Colourless liquid with strong unpleasant odour. Boiling range: 61°C to 63°C. Immiscible with water. Toxic if swallowed or by inhalation. When uninhibited readily polymerises.
2528	ISOBUTYL ISOBUTYRATE	3		III		5 L	E1	P001 IBC03 LP01		T2	TP1	3Y		Colourless liquid with a fruity odour. Immiscible with water.
2529	ISOBUTYRIC ACID	3	8	III		5 L	E1	P001 IBC03		T4	TP1	2W	001174	Colourless liquid with a pungent odour. Miscible with water. Harmful if swallowed, by inhalation or by skin contact.
2531	METHACRYLIC ACID, STABILIZED	8		II		1 L	E2	P001 IBC02 LP01		T7	TP2 TP18 TP30	3W	001539	Colourless, combustible liquid with a specific odour. Miscible with water. Polymerises readily above its melting point (15°C) evolving heat: must therefore be properly inhibited. Decomposes by heat, evolving toxic gases. Harmful if swallowed or by inhalation. Corrosive to eyes, skin and mucous membranes.

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2533	METHYL TRICHLOROACETATE	6.1		III		5 L	E1	P001 IBC03 LP01		T4	TP1	2Z		Liquid. Toxic if swallowed or by skin contact.
2534	METHYLCHLOROSILANE	2.3	2.1 8			0	E0	(*)				2WE		Colourless liquefied gas with a strong odour. Vapour denser than air. Immiscible with water. Readily hydrolysed by moisture, evolving hydrogen chloride, a toxic and corrosive gas. Toxic if swallowed and by inhalation. Burns skin. Vapour irritates skin, eyes and mucous membranes. Refer to HSNO regulations for requirements for cylinders and other containers for gases.
2535	4-METHYLMORPHOLINE (N-METHYLMORPHOLINE)	3	8	II		1 L	E2	P001 IBC02		T7	TP1	2YE	001392	Colourless liquid with an ammoniacal odour. Miscible with water. Severely irritating to skin, eyes and mucous membranes. Firefighting: water may be ineffective.
2536	METHYLTETRAHYDROFURAN	3		II		1 L	E2	P001 IBC02		T4	TP1	2YE	001202	Colourless volatile liquid with an ethereal odour. Immiscible with water. Firefighting: use carbon dioxide, foam or dry chemical. Water except for water fog may be ineffective.
2538	NITRONAPHTHALENE	4.1		III		5 kg	E1	P002 IBC08 LP02	B3	T1	TP33	1Z	001288	Yellow crystals. Insoluble in water. Harmful if swallowed.
2541	TERPINOLENE	3		III		5 L	E1	P001 IBC03 LP01		T2	TP1	3Y	001222	Colourless to pale amber liquid with a lemon odour. Immiscible with water. Firefighting: use carbon dioxide, foam or dry chemical.
2542	TRIBUTYLAMINE	6.1		II		100 ml	E4	P001 IBC02		T7	TP2	3X	003642	Colourless, combustible liquid with an amine odour. Immiscible with water. Corrosive to skin, eyes and mucous membranes. Vapour irritating by inhalation. Evolves toxic gases when involved in a fire.

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2545	HAFNIUM POWDER, DRY	4.2		I		0	E0	P404						Black amorphous powder. Insoluble in water. Forms explosive mixtures with most oxidising substances such as chlorates, nitrates, perchlorates or permanganates. For hafnium metal powder, wet, see Class 4.1. The transport of this substance is prohibited for particle size less than 3 microns mechanically produced or particle size less than 10 microns chemically produced. This substance having particle size above 53 microns mechanically produced or having particle size above 840 microns chemically produced is not considered dangerous.
		4.2		II		0	E2	P410 IBC06	B2	T3	TP33	1Y		
		4.2		III	223	0	E1	P002 IBC08 LP02	B3	T1	TP33	1Y		
2546	TITANIUM POWDER, DRY	4.2		I		0	E0	P404						Grey powder. Firefighting: use dry chemical extinguisher. For titanium metal powder, wet, see below.
		4.2		II		0	E2	P410 IBC06	B2	T3	TP33	1Y		
		4.2		III	223	0	E1	P002 IBC08 LP02	B3	T1	TP33	1Y		
2547	SODIUM SUPEROXIDE	5.1		I		0	E0	P503 IBC06	B1			1W		Pale yellow coarse powder, or coarse granules. Powerful oxidant. Reacts vigorously with water evolving oxygen and intensive heat and forming a corrosive alkaline solution. May form explosive mixtures with powdered metals and with combustible materials (such as wood, straw, cotton, sugar or vegetable oils). Can cause ignition of combustible materials on contact, particularly in the presence of moisture. Highly irritating to skin, eyes and mucous membranes. Ensure complete protection of contents from damp. Firefighting: use a dry chemical. A fire caused by contact with combustible (organic) materials should be smothered with soda ash (sodium carbonate), salt, or a dolomite mixture. If fire cannot be smothered, flood with large quantities of water.

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2548	CHLORINE PENTAFLUORIDE	2.3	5.1 8			0	E0	(*)				2WE		Toxic gas with a severe effect on body tissue. Powerful oxidant. Refer to HSNO regulations for requirements for cylinders and other containers for gases.
2552	HEXAFLUOROACETONE HYDRATE, LIQUID	6.1		II		100 ml	E4	P001 IBC02		T7	TP2	2X		Aqueous solution of HEXAFLUORO ACETONE (UN 2420).
2554	METHYLALLYL CHLORIDE	3		II		1 L	E2	P001 IBC02		T4	TP1 TP13	1Z		Colourless to yellowish volatile liquid with a penetrating odour. Boiling point: 68°C. On decomposition evolves highly toxic fumes of chlorides. Harmful if swallowed, by inhalation or by skin contact. Firefighting: use carbon dioxide, foam or dry chemical.
2555	NITROCELLULOSE WITH WATER (not less than 25% water, by mass)	4.1		II		0	E0	P406				1Z	001490	The nitrocellulose may be in granular form, in flakes, or in blocks. When involved in a fire toxic fumes are evolved. In closed compartments these fumes may form an explosive mixture with air. Refuse for shipment damaged or leaking receptacles. Firefighting: deluge with water. Wear self-contained breathing apparatus and complete protective clothing. Nitrocellulose with less than 25% water, by mass, is transported under Class 1 – Explosives – see 2.2.1 of Part 1 of this Standard.