

APPENDIX D: HAZARDOUS SUBSTANCE PROFILES

Legend:	E:	Extreme
	H:	High
	M:	Medium
	L:	Low
	OSL:	Outside Specified Levels
	* :	Classified according to precautionary approach due to unavailability of relevant data.
	- :	Not applicable to this Effects Group

Substance Name	UN No.	Substance Form	Specific Gravity	Primary Classification	Packaging Group	Subsidiary Classification	Effects Groups and Hazard Levels		
							Fire/Explosion	Human Health	Environment
Acetaldehyde	1089	Liquid	0.780	UN 3	I	-	H	H	L
Acetone	1090	Liquid	0.791	UN 3	II	-	H	OSL	OSL
Acetone Cyanohydrin	1541	Liquid	0.925	UN 6.1	I	-	-	H	H*
Acetonitrile [Synonym: Methyl Cyanide]	1648	Liquid	0.787	UN 3	II	UN 6.1	H	M	H*
Acetylene	1001	Gas	-	UN 2.1	-	-	H	-	-
Acrolein [Synonym: Acrylic Aldehyde]	1092	Liquid	0.843	UN 3	I	UN 6.1	H	M	E
Aluminium Chloride (anhydrous)	1726	Solid	-	UN 8	II	-	-	M	H
Ammonia (anhydrous, liquefied)	1005	Gas	-	UN 2.3	-	-	-	H	-
Ammonium Hydroxide (>10%, ?35% ammonia in solution)	2672	Liquid	0.880 - 0.957	UN 8	III	-	-	-	H
Ammonium Nitrate (?0.2% combustible material, free from other added matter)	1942	Solid	-	UN 5.1	III	-	H	-	OSL
Argon	1006	Gas	-	UN 2.2	-	-	-	-	-
Arsenic Trioxide	1561	Solid	-	UN 6.1	II	-	-	H	M
Benzene	1114	Liquid	0.879	UN 3	II	UN 6.1	H	H	M
Boric Acid	-	Solid	-	-	-	-	-	OSL	H*
Bromine	1744	Liquid	3.120	UN 8	I	UN 6.1	-	M	H
Butane	1011	Gas	-	UN 2.1	-	-	H	L	-

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Cadmium Chloride	2570	Solid	-	UN 6.1	I/II/III	-	-	H	E
Calcium Hypochlorite (> 39% available chlorine)	1748	Solid	-	UN 5.1	II	-	H	L	H
Carbofuran	2757	Solid	-	UN 6.1	-	-	-	H	H
Carbon Dioxide	1013	Gas	-	UN 2.2	-	-	-	OSL	-
Carbon Disulphide	1131	Liquid	1.260	UN 3	I	UN 6.1	H	OSL	L
Carbon Tetrachloride	1846	Liquid	1.597	UN 6.1	II	-	-	H	H*
Chlordane	2762	Liquid	1.600	UN 6.1	-	UN 3	M	H	E
Chlorine	1017	Gas	-	UN 2.3	-	UN 6.1	-	E	-
Chloroform	1888	Liquid	1.500	UN 6.1	II	-	-	H	H*
Cresol [Synonym: Cresylic Acid]	2022	Liquid	1.050	UN 6.1	II	UN 8	-	M	H
Cypermethrin	2783	Liquid	1.240	UN 6.1	-	-	-	H	E
Diazinon	2783	Liquid	1.116	UN 6.1	II	-	-	M	L
Dicamba	2769	Solid	-	UN 6.1	III	-	-	OSL	M
Dichlorobenzene (m, o)	1591	Liquid	1.307	UN 6.1	III	-	-	L	M
Dichlorvos	2783	Liquid	1.415	UN 6.1	II	-	-	M	H*
Diesel (Fuel, Flashpoint > 62°C)	1202	Liquid	0.850	UN 3	-	-	L	OSL	M
Diethylene Glycol	-	Liquid	1.118	-	-	-	-	OSL	OSL
Epichlorohydrin	2023	Liquid	1.180	UN 6.1	II	UN 3	M	H	H*
Ethane	1035	Gas	-	UN 2.1	-	UN 3	H	-	-
Ethanol [Synonym: Ethyl Alcohol]	1170	Liquid	0.790	UN 3	II	-	H	OSL	H*
Ethyl Acrylate	1917	Liquid	0.923	UN 3	II	UN 6.1	H	H	H*
Ethylene	1962	Gas	-	UN 2.1	-	-	H	-	-
Ethylene Glycol	-	Liquid	1.113	-	-	-	-	OSL	OSL
Ethyleneimine	1185	Liquid	0.832	UN 3	II	UN 6.1	H	H	H*
Fluorine	1045	Gas	-	UN 2.3	-	UN 5.1	H	E	-
Formaldehyde (37% - 50%)	1198	Liquid	1.100	UN 3	III	UN 6.1	M	H	L
Glyphosate	-	Liquid	1.170	-	-	-	-	OSL	M
Hexane	1208	Liquid	0.659	UN 3	II	-	H	OSL	H*
Hydrazine (anhydrous)	2029	Liquid	1.008	UN 3	I	UN 6.1	H	H	H
Hydrochloric Acid	1789	Liquid	1.190	UN 8	II	-	-	M	H

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Hydrogen	1049	Gas	-	UN 2.1	-	-	H	-	-
Hydrogen Chloride	1050	Gas	-	UN 2.3	-	UN 8	-	H	-
Hydrogen Cyanide [Synonym: Hydrocyanic Acid]	1051	Liquid	0.689	UN 6.1	I	UN 3	H	H	H*
Hydrogen Fluoride (anhydrous)	1790	Liquid	0.950	UN 8	I	UN 6.1	-	M	H
Hydrogen Peroxide (>60%)	2015	Liquid	1.290	UN 5.1	I	UN 8	H	M	H
Hydrogen Sulfide	1053	Gas	-	UN 2.1	-	UN 2.3	H	H	-
Iodine	1759	Solid	-	UN 8	I	-	-	M	H
Lauryl Mercaptan	1228	Liquid	0.850	UN 3	II	UN 6.1	H	L	H*
LPG	1075	Gas	-	UN 2.1	-	-	H	-	-
Methanol [Synonym: Methyl Alcohol]	1230	Liquid	0.792	UN 3	II	UN 6.1	H	OSL	H*
Methyl Bromide	1062	Liquid	1.680	UN 2.3	-	UN 6.1	-	H	-
Methyl Chloride	1063	Gas	-	UN 2.1	-	UN 2.3	H	H	-
Methyl Ethyl Ketone	1193	Liquid	0.806	UN 3	II	-	H	OSL	H*
Methyl Isobutyl Ketone	1245	Liquid	0.802	UN 3	II	-	H	M	H*
Methyl Isocyanate	2480	Liquid	0.960	UN 3	I	UN 6.1	H	M	H*
Methyl Mercaptan	1064	Gas	-	UN 2.1	-	UN 6.1	H	M*	-
Methylene Chloride [Synonym: Dichloromethane]	1593	Liquid	1.326	UN 6.1	III	-	-	H	L
Milk	-	Liquid	1.032	-	-	-	-	-	M
Nitric Acid	2031	Liquid	1.490	UN 8	I	-	-	M	H
Nitroglycerine	0143	Liquid	1.599	UN 1.1	-	UN 6.1	E	L	H*
Oxygen	1072	Gas	-	UN 2.2	-	UN 5.1	H	-	-
Pentachlorophenol	2020	Solid	-	UN 6.1	III	-	-	M	E
Petrol	1203	Liquid	0.703	UN 3	II	-	H	OSL	H*
Phenol	1671	Solid	-	UN 6.1	II	-	-	M	L
Phosgene	1076	Gas	-	UN 2.3	-	8	-	H	-
Phosphoric Acid	1807	Solid	-	UN 8	II	-	-	M	H
Phosphorus (white, yellow)	1381	Solid	-	UN 4.2	-	UN 6.1	E	H	H*
Potassium Hydroxide [Synonym: Caustic Potash]	1813	Solid	-	UN 8	II	-	-	M	H
Potassium Permanganate	1490	Solid	-	UN 5.1	II	-	H	L	H*

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Propylene Oxide	1280	Liquid	0.830	UN 3	I	UN 6.1	H	H	H*
Sodium Hydroxide	1823	Solid	-	UN 8	II	-	-	M	H
Sodium Selenite	2630	Solid	-	UN 6.1	I	-	-	H	M
Styrene Monomer	2055	Liquid	0.910	UN 3	III	-	M	OSL	L
Sulphur Dioxide	1079	Gas	-	UN 2.3	-	-	-	H	-
Sulphuric Acid (? 33%)	1830	Liquid	1.840	UN 8	II	-	-	M	H
1,1,2,2-Tetrachloroethane	1702	Liquid	1.590	UN 6.1	II	-	-	M	H*
Toluene	1294	Liquid	0.867	UN 3	II	-	H	OSL	H*
Toluene 2,4 Diisocyanate	2078	Liquid	1.220	UN 6.1	II	-	-	H	H*
1,1,2-Trichloroethane	-	Liquid	1.442	UN 6.1	III	-	-	L	L
Trichloroethylene	1710	Liquid	1.460	UN 6.1	III	-	-	L	H
Turpentine	1299	Liquid	0.860	UN 3	III	-	M	OSL	H*
Xylene (m, o, p)	1307	Liquid	0.870	UN 3	II, III	-	M	OSL	H
Zinc (powder or dust)	1436	Powder	-	UN 4.3	II	UN 4.2	E	-	H*
Zinc Ammonium Chloride	-	Solid	-	-	-	-	-	OSL	H*