

Threshold values for purposes of incident reporting

Any unplanned or uncontrolled discharge of one or more dangerous substances with release quantities above the threshold values stated in the tables below will need to be reported to MOM as a process-related incident.

Note: The release threshold values may be subjected to review and revision.

Table 1: Named dangerous substances

No.	Named Dangerous substances	Release Threshold Values
1.	2,4-Toluene diisocyanate & 2,6- Toluene diisocyanate	0.5 kg
2.	Acetylene	50 kg
3.	Ammonium nitrate	100 kg
4.	Anhydrous Ammonia	2.5 kg
5.	Arsenic pentoxide, arsenic (V) acid and/or salts	2.5 kg
6.	Arsenic trioxide, arsenious (III) acid and/or salts	2.5 kg
7.	Arsine (arsenic trihydride)	0.5 kg
8.	Boron trifluoride	0.5 kg
9.	Carbonyl dichloride (phosgene)	0.5 kg
10.	Chlorine	2.5 kg
11.	Ethylene oxide	2.5 kg
12.	Ethyleneimine	0.5 kg
13.	Formaldehyde (concentration>90%)	2.5 kg
14.	Hydrogen	50 kg
15.	Hydrogen chloride (anhydrous and refrigerated liquid)	2.5 kg
16.	Hydrogen fluoride (anhydrous)	0.5 kg
17.	Hydrogen sulphide	0.5 kg
18.	Liquefied flammable gases, Category 1 or 2 (including LPG)	50 kg
19.	Methanol	50 kg
20.	Methyl acrylate	1000 kg
21.	Methylisocyanate	2.5 kg
22.	Oxygen	1000 kg
23.	Petroleum products and alternative Fuels (a) gasolines and naphthas (b) kerosenes (including jet fuels) (c) gas oils (including diesel fuels and gas oil blending streams) (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties, with regard to flammability, to the products mentioned in paragraphs (a) to (d)	(a) 100 kg (b) 100 kg (c) 1000 kg (d) 1000 kg (e) Varies based on its hazards categories in SDS
24.	Phosphine (phosphorus trihydride)	0.5 kg

25.	Potassium nitrate	100 kg
26.	Propylamine	2.5 kg
27.	Propylene oxide	2.5 kg
28.	Sulphur trioxide	2.5 kg
29.	Tert-butyl acrylate	1000 kg

Table 2: Categories of dangerous substances not specifically named in table 1

Categories of dangerous substances not specifically named in table 1		Release Threshold Values
H1	ACUTE TOXIC — Acute toxic, Category 1, any exposure routes	0.5 kg
H2	ACUTE TOXIC — Acute toxic, Category 2, any exposure routes — Acute toxic, Category 3, inhalation exposure route	2.5 kg
H3	SPECIFIC TARGET ORGAN TOXICITY (STOT) – SINGLE EXPOSURE — STOT SE, Category 1	50 kg
P1a	EXPLOSIVES — Explosives, Unstable explosives or Division 1.1, 1.2, 1.3 or 1.5	2.5 kg
P1b	EXPLOSIVES — Explosives, Division 1.4, or 1.6	50 kg
P2	FLAMMABLE GASES — Flammable gases, Category 1 or 2	50 kg
P3	AEROSOLS — Aerosols, Category 1 or 2	100 kg
P4	OXIDISING GASES — Oxidising gases, Category 1	50 kg
P5a	FLAMMABLE LIQUIDS — Flammable liquids, Category 1 — Flammable liquids, Category 2 or 3 maintained at a temperature above their boiling point — Other liquids with a flash point $\leq 60^{\circ}\text{C}$, maintained at a temperature above their boiling point	100 kg
P5b	FLAMMABLE LIQUIDS — Flammable liquids, Category 2 or 3 where particular processing conditions, such as high pressure or high temperature, may create major accident hazards — Other liquids with a flash point $\leq 60^{\circ}\text{C}$ where particular processing conditions, such as high pressure or high temperature, may create major accident hazards	100 kg
P5c	FLAMMABLE LIQUIDS — Flammable liquids, Category 2 or 3 not covered by P5a and P5b	1000 kg
P5d	FLAMMABLE SOLIDS — Flammable solids, Category 1 or 2	1000 kg

P6a	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES — Self-reactive substances and mixtures, Type A or B — Organic peroxides, Type A or B	50 kg
P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES — Self-reactive substances and mixtures, Type C, D, E or F — Organic peroxides, Type C, D, E, or F	100 kg
P7	PYROPHORIC LIQUIDS AND SOLIDS — Pyrophoric liquids, Category 1 — Pyrophoric solids, Category 1	100 kg
P8	OXIDISING LIQUIDS AND SOLIDS — Oxidising liquids, Category 1, 2 or 3 — Oxidising solids, Category 1, 2 or 3	100 kg
O1	Substances and mixtures which in contact with water emit flammable gases, Category 1	100 kg
O2	Desensitized explosives when dry are Explosives of Class 1 other than those of compatibility group A, which are wetted with sufficient water, alcohol, or plasticizer to suppress explosive properties	1000 kg

Last updated 22 September 2017