

Attachment 3

The characteristics and total quantities handled of toxic and concerned chemical substances for lower- and upper-tier requirements

Classification	Category	Lower-tier requirements of Total Quantities Handled (tonnes)	Upper-tier requirements of Total Quantities Handled (tonnes)
Acute toxicity	Category 1, all exposure routes	5	20
	Category 2, all exposure routes	50	200
	Category 3, inhalation exposure route		
Specific target organ toxicity (single exposure)	Category 1	50	200
Explosives	Unstable explosive	10	50
	Explosives , Division 1.1, 1.2, 1.3, 1.5 or 1.6		
	Substances or mixtures having explosive properties and do not belong to the hazard classes Organic peroxides or Self-reactive substances and mixtures		
Explosives	Explosives, Division 1.4	50	200
Flammable gases	Category 1	10	50
	Category 2		
Flammable aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1	Category 1	150	500
	Category 2		
Flammable aerosols Category 1 or 2,	Category 1	5,000	50,000

not containing flammable gases Category 1 or 2 nor flammable liquids category 1	Category 2		
Oxidizing gases	Category 1	50	200
Flammable liquids	Category 1	10	50
	Flammable liquids Category 2 or 3 maintained at a temperature above their boiling point		
	Other liquids with a flash point ≤ 60 °C, maintained at a temperature above their boiling point	50	200
	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 ≤ 60 °C where particular processing conditions, such as high pressure or high temperature, may create major-accident hazards		
	Flammable liquids, Categories 2 or 3 not covered by aforesaid classification	5,000	50,000
Self-reactive substances and mixtures	Type A	10	50
	Type B		
Organic peroxides	Type A	10	50
	Type B		
Self-reactive substances and mixtures	Type C	50	200
	Type D		
	Type E		
	Type F		
Organic peroxides	Type C	50	200
	Type D		
	Type E		

	Type F		
Pyrophoric liquids	Category 1	50	200
Pyrophoric solids	Category 1	50	200
Oxidizing liquids	Category 1	50	200
	Category 2		
	Category 3		
Oxidizing solids	Category 1	50	200
	Category 2		
	Category 3		
Hazardous to the aquatic environment (acute toxicity or chronic toxicity)	Category 1	100	200
Hazardous to the aquatic environment (chronic toxicity)	Category 2	200	500
Substances which, in contact with water, emit flammable gases	Substances or mixtures with hazard statement “Reacts violently with water”	100	500
	Substances and mixtures which in contact with water emit flammable gases, Category 1		
	Substances or mixtures with hazard statement “Contact with water liberates toxic gas”	50	200

Notes: If more than two types of toxic and concerned chemical substances are involved in the handling, the total quantities handled for upper- and lower-tier requirements shall be calculated as: “the maximum production, use or storage quantities of each substance at one day” divided by “their respective total quantities handled for upper- and lower- tier requirements”. Where the total of quotients is greater than 1, it means that the total quantities is above the total quantities handled for the requirements of the level.