

CORRELATION BETWEEN GHS and NZ HSNO HAZARD CLASSES AND CATEGORIES

PHYSICAL HAZARDS

Class	GHS Category	HSNO Category
Explosives	Unstable explosives	^a
	Division 1.1	1.1
	Division 1.2	1.2
	Division 1.3	1.3
	Division 1.4	1.4
	Division 1.5	1.5
	Division 1.6	1.6
Flammable gases	Category 1	2.1.1A
	Category 2	2.1.1B
Flammable aerosols	Category 1	2.1.2A ^b
	Category 2	^b
Oxidizing gases	Category 1	5.1.2A
Gases under pressure	Compressed gases	^c
	Liquefied gas	^c
	Refrigerated liquefied gas	^c
	Dissolved gas	^c
Flammable liquids	Category 1	3.1A
	Category 2	3.1B
	Category 3	3.1C
	Category 4	3.1D
Liquid desensitized explosives		3.2A ^d
		3.2B ^d
		3.2C ^d
Flammable solids	Category 1	4.1.1A
	Category 2	4.1.1B
Self-reactive substances and mixtures	Type A	4.1.2A
	Type B	4.1.2B
	Type C	4.1.2C
	Type D	4.1.2D
	Type E	4.1.2E
	Type F	4.1.2F
	Type G	4.1.2G
Solid desensitized explosives		4.1.3A ^d
		4.1.3B ^d
		4.1.3C ^d
Self-heating substances and mixtures	Category 1	4.2B
	Category 2	4.2C
Pyrophoric liquids	Category 1	4.2A
Pyrophoric solids	Category 1	4.2A

Class	GHS Category	HSNO Category
Substances and mixtures, which in contact with water, emit flammable gases	Category 1	4.3A
	Category 2	4.3B
	Category 3	4.3C
Oxidizing liquids	Category 1	5.1.1A
	Category 2	5.1.1B
	Category 3	5.1.1C
Oxidizing solids	Category 1	5.1.1A
	Category 2	5.1.1B
	Category 3	5.1.1C
Organic peroxides	Type A	5.2A
	Type B	5.2B
	Type C	5.2C
	Type D	5.2D
	Type E	5.2E
	Type F	5.2F
	Type G	5.2G
Corrosive to metals	Category 1	8.1A

HEALTH HAZARDS

Class	Category	HSNO Category
Acute toxicity: Oral	Category 1	6.1A
	Category 2	6.1B
	Category 3	6.1C
	Category 4	6.1D
	Category 5	6.1E
Acute toxicity: Skin	Category 1	6.1A
	Category 2	6.1B
	Category 3	6.1C
	Category 4	6.1D
	Category 5	6.1E
Acute toxicity: Inhalation	Category 1	6.1A
	Category 2	6.1B
	Category 3	6.1C
	Category 4	6.1D
	Category 5	6.1E
Skin corrosion/irritation	Category 1A	8.2A
	Category 1B	8.2B
	Category 1C	8.2C
	Category 2	6.3A
	Category 3	6.3B
Serious eye damage/eye irritation	Category 1	8.3A
	Category 2A	6.4A
	Category 2B	6.4A ^e

Class	Category	HSNO Category
Respiratory sensitization	Category 1	6.5A
Skin sensitization	Category 1	6.5B
Germ cell mutagenicity	Category 1A	6.6A
	Category 1B	6.6A
	Category 2	6.6B
Carcinogenicity	Category 1A	6.7A
	Category 1B	6.7A
	Category 23	6.7B
Toxic to reproduction	Category 1A	6.8A
	Category 1B	6.8A
	Category 2	6.8B
	Effects on lactation	6.8C
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 1	6.9A
	Category 2	6.9B
	Category 3	f
Specific Target Organ Systemic Toxicity (Repeated exposure)	Category 1	6.9A
	Category 2	6.9B
Aspiration hazard	Category 1	6.1E ^g
	Category 2	6.1E ^g

ENVIRONMENTAL HAZARDS

Class	Category	HSNO Category
Aquatic toxicity (Acute)	Category 1	9.1A
	Category 2	9.1D
	Category 3	9.1D
Aquatic toxicity (Chronic)	Category 1	9.1A
	Category 2	9.1B
	Category 3	9.1C
	Category 4	9.1D
Ecotoxic to soil environment		9.2A – 9.2D
Ecotoxic to terrestrial vertebrates		9.3A – 9.3C
Ecotoxic to terrestrial invertebrates		9.4A – 9.4C

Notes:

^a Not currently covered under HSNO classification scheme

^b HSNO criteria taken from UN Model Regulations 11th Edition

^c Covered under local transport law adoption of UN Model Regulations

^d HSNO criteria taken from UN Model Regulations 11th Edition

^e HSNO does not separate reversible eye effects into two sub-categories

^f HSNO does not specifically address the new GHS category of transient target organ effects

^g Aspiration hazard is currently captured under HSNO as an acute toxic hazard where there is

evidence in humans of significant acute toxic effects as a result of acute exposure to the substance, where the substance has not already been assigned to a more hazardous category.