GHS Classification

ID655 Nitrogen monoxide

CAS 10102-43-9 Date Classified: Jul. 24, 2006 (Environmental Hazards: Mar. 31, 2006)

Physical Hazards Reference Manual: GHS Classification Manual (Feb. 10, 2006)

	Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Explosives	Not applicable	–	–	–	Gas (GHS definition)
2	Flammable gases	Not classified	–	–	–	Non-combustible
3	Flammable aerosols	Not applicable	–	–	–	Not aerosol products
4	Oxidizing gases	Category 1	Flame over circle	Danger	May cause or intensify fire; oxidizer	Categoly 1 by the definition on GHS, 1st, P58 (the coefficient of oxygen equivalency is 0.3 and 100% of gas is 30, larger than 21)
5	Gases under pressure	Compressed gas	Gas cylinder	Warning	Contains gas under pressure; may explode if heated	Transported as refrigerated liquefied gases (UNRTDG)
6	Flammable liquids	Not applicable	–	–	–	Gas (GHS definition)
7	Flammable solids	Not applicable	–	–	–	Gas (GHS definition)
8	Self-reactive substances and mixtures	Not applicable	–	–	–	Gas (GHS definition)
9	Pyrophoric liquids	Not applicable	–	–	–	Gas (GHS definition)
10	Pyrophoric solids	Not applicable	–	–	–	Gas (GHS definition)
11	Self-heating substances and mixtures	Not applicable	–	–	–	Gas (GHS definition)
12	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	–	–	–	Gas (GHS definition)
13	Oxidizing liquids	Not applicable	–	–	–	Gas (GHS definition)
14	Oxidizing solids	Not applicable	–	–	–	Gas (GHS definition)
15	Organic peroxides	Not applicable	–	–	–	Gas (GHS definition)
16	Corrosive to metals	Classification not possible	–	–	–	Test methods applicable to gas substances are not available

Health Hazards

	Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Classification not possible	–	–	–	No data available
1	Acute toxicity (dermal)	Classification not possible	–	–	–	No data available
1	Acute toxicity (inhalation: gas)	Category 3	Skull and crossbones	Danger	Toxic if inhaled	It was considered as Category 3 from the rat value of 870ppm (RTECS (2004)).
1	Acute toxicity (inhalation:	Not applicable	–	–	–	Gas (GHS definition)
1	Acute toxicity (inhalation: dust, mist)	Not applicable	–	–	–	Gas (GHS definition)
2	Skin corrosion / irritation	Classification not possible	–	–	–	No data available
3	Serious eye damage / eye irritation	Classification not possible	–	–	–	There is no valid data.
4	Respiratory/skin sensitization	Classification not possible	–	–	–	No data available
5	Germ cell mutagenicity	Classification not possible	–	–	–	For in vivo, it gave "positive" by high-concentration rat somatic cell test (RTECS (2004), IUCLID (2000)), and for in vitro, it gave "negative and positive" by the Ames test (RTECS (2004), IUCLID (2000)). However, we found no valid data, we could not classify it.
6	Carcinogenicity	Classification not possible	–	–	–	No data available
7	Toxic to reproduction	Classification not possible	–	–	–	No data available
8	Specific target organs/systemic toxicity following single exposure	Category 1 (lung, blood system)	Health hazard	Danger	Cause damage to organs (lung, blood system)	There is the symptom of acute pulmonary oedema and of cyanosis by methemoglobin generation (ACGIH(2001)), and it is classified into Category 1 (lung, blood)

9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	–	–	–	No data available
10	Aspiration hazard	Not applicable	–	–	–	Gas (GHS definition)

Environmental Hazards

Hazard class		Classification	symbol	signal word	hazard statement	Rational for the classification
11	Hazardous to the aquatic environment (acute)	Classification not possible	–	–	–	No data available
11	Hazardous to the aquatic environment (chronic)	Classification not possible	–	–	–	No data available.