

GHS Classification

ID10

Stibine

CAS 7803-52-3

Date Classified: Apr. 20, 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	-	-	-	Classified as "gas" according to GHS definition
2 Flammable gases	Category 1	Flame	Danger	Extremely flammable gas	Because of a lack of data (Explosive, when mixed with air, according to ICSC (1999), though the literature shows no explosion limits). Classified into Division 2.1 and Division 2.3 (UN Recommendations on the Transport of Dangerous Goods, UN#2676)
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not classified	-	-	-	Classified into Division 2.1 and Division 2.3 (UN#2676) (UN Recommendations on the Transport of Dangerous Goods)
5 Gases under pressure	Classification not possible	-	-	-	No data available. The boiling point is -18degC (ICSC, 1999), while the substance decomposes gradually at room temperatures and rapidly at 200degC, according to ICSC (1999). The critical temperature appears to be above 65degC, which suggests that the substance can be classified as "liquefied gas."
6 Flammable liquids	Not applicable	-	-	-	Classified as "gas" according to GHS definition
7 Flammable solids	Not applicable	-	-	-	Classified as "gas" according to GHS definition
8 Self-reactive substances and mixtures	Not applicable	-	-	-	Classified as "gas" according to GHS definition
9 Pyrophoric liquids	Not applicable	-	-	-	Classified as "gas" according to GHS definition
10 Pyrophoric solids	Not applicable	-	-	-	Classified as "gas" according to GHS definition
11 Self-heating substances and mixtures	Not applicable	-	-	-	Classified as "gas" according to GHS definition
12 Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	-	Classified as "gas" according to GHS definition
13 Oxidizing liquids	Not applicable	-	-	-	Classified as "gas" according to GHS definition
14 Oxidizing solids	Not applicable	-	-	-	Classified as "gas" according to GHS definition
15 Organic peroxides	Not applicable	-	-	-	Classified as "gas" according to GHS definition
16 Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to gaseous 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)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: dust, mist)	Not applicable	-	-	-	Due to the fact that the substance is "gas" according to the GHS definition and inhalation of its vapour is not expected.
1 Acute toxicity (inhalation: dust, mist)	Not applicable	-	-	-	Due to the fact that the substance is "gas" according to the GHS definition and inhalation of its dust/mist is not expected.
2 Skin corrosion / irritation	Classification not possible	-	-	-	No data available
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	No data available
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	(Respiratory sensitization) - (Skin sensitization) -	(Respiratory sensitization) - (Skin sensitization) -	(Respiratory sensitization) - (Skin sensitization) -	Respiratory sensitization: No data available Skin sensitization: No data available
5 Germ cell mutagenicity	Classification not possible	-	-	-	No data available
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 (kidneys, respiratory organs, blood)	Health hazard	Danger	Causes damage to organs (kidneys, respiratory organs, blood)	Based on the human evidence including "debility, headache, gastralgia, hematuria associated with nausea" (ACGIH (7th, 2001)), and the evidence from animal studies including "renal tubular dilation, pulmonary edema" (ATSDR (1992)), "pulmonary congestion and edema" (ACGIH (7th, 2001)) and "severe anemia, hemoglobinuria" (HSDB (2002)). The effects on experimental animals were observed at dosing levels within the guidance value ranges for Category 1.
9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	No data available
10 Aspiration hazard	Not applicable	-	-	-	Due to the fact that the substance is a gas at ordinary temperatures.

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