

GHS Classification

ID317

Tungsten hexafluoride

CAS 7783-82-6

Date Classified: Aug. 22, 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	Not classified	—	—	—	Non-flammable (Hazardous Substance Data Book, 1998)
3 Flammable aerosols	Not applicable	—	—	—	Not aerosol products
4 Oxidizing gases	Not classified	—	—	—	Classified into Division 2.3 and Class 8 (UN#2196) (UN Recommendations on the Transport of Dangerous Goods)
5 Gases under pressure	Liquefied gas	Gas cylinder	Warning	Contains gas under pressure; may explode if heated	The boiling point is 17.5degC (Merck (13th, 2001)) and the critical temperature is 171degC (Lide (84th, 2003)), i.e., liquefied gas. Classified into Division 2.3 (UN#2196) (UN Recommendations on the Transport of Dangerous Goods)
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)	Category 2	Skull and crossbones	Danger	Fatal if inhaled	Based on the LC50 value of 117ppm calculated from the testing data of rat LC50 of 1.43mg/L (HSDB (2004)).
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 As for the germ cell mutagenicity, refer to "ID63, Hydrogen Fluoride, CAS: 7664-39-3" and "ID479, Sodium Fluoride, CAS: 7661-49-4."
6 Carcinogenicity	Classification not possible	—	—	—	No data available As for the carcinogenicity, refer to "ID63, Hydrogen Fluoride, CAS: 7664-39-3" and "ID479, Sodium Fluoride, CAS: 7661-49-4."
7 Toxic to reproduction	Classification not possible	—	—	—	No data available As for the reproductive toxicity, refer to "ID63, Hydrogen Fluoride, CAS: 7664-39-3" and "ID479, Sodium Fluoride, CAS: 7661-49-4."
8 Specific target organs/systemic toxicity following single exposure	Classification not possible	—	—	—	No data available Refer to "Hydrogen Fluoride (ID63, CAS: 7664-39-3)."
9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	—	—	—	No data available Refer to "Hydrogen Fluoride (ID63, CAS: 7664-39-3)."
10 Aspiration hazard	Not applicable	—	—	—	Not applicable

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