GHS Classification

ID1050 CAS 7783-60-0 Physical Hazards

sulphur tetrafluoride

Date Classified: Mar. 15, 2007 (Environmental Hazards: Mar. 31, 2006)

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

Haz	ard 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 (ICSC(J), 2003)
3	Flammable aerosols	Not applicable	-	_	-	Not aerosol products
4	Oxidizing gases	Not classified	-	-	-	Not classified because it is UNRTDG No. 2418, Class: 2.3(8) but not Subsidiary risks Class: 5.1.
5	Gases under pressure				Contains gas under	
		Liquefied gas	Gas cylinder	Warning	pressure; may explode if heated	Liquefied gas because of "the boiling point: -40degC" (ICSC(J), 2003) and partially liquid at temperatures above -50degC.
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)
	Organic peroxides	Not applicable	-	-	-	Gas (GHS definition)
16	Corrosive to metals	Classification not possible	-	-	_	UNRTDG is classified into 2.3 (8) according to the UNRTDG No. (2418). Although ICSC (J)(2003) have the description "it corrodes metal", test methods suitable for gaseous substances are not established.

Health Hazards

	ard class	Classification	aumhal	aignal word	hazard statement	Detined for the elegation to
		Classification	symbol	signal word	hazard statement	Rational for the classification
	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 1	crossbones	Danger	Falat if inhaled	It was considered as Category 1 from rat LC50 = 19ppm/4hr (ACGIH (7th, 2001)).
1	Acute toxicity (inhalation:	Not applicable	-	-	-	Gas (GHS definition)
1	Acute toxicity (inhalation: dust, mist)	Not applicable	-	-	-	Gas (GHS definition)
_	Skin corrosion / irritation	Category 1A-1C	Corrosion	Danger	burns and eye	Since there was a statement which indicated caustic to the skin in humans (ICSC (J), (2003), SITTIG (4th, 2002), HSFS (2000)), it was set as Category 1A-1C. [view] It is more desirable to be set as 1A from a viewpoint of safety, when subdivision needs to be performed.
	Serious eye damage / eye irritation		Corrosion	Danger		In humans, there was description which shows corrosiveness (ICSC (J), (2003), SITTIG (4th, 2002), HSFS (2000)) or irritation (ACGIH (7th, 2001)) to the eye, so it was classified into Category 1.
4	Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (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

		Category 1 (inhalation:respiratory); Category 3 (respiratory tract irritation)	Health hazard	Danger	or may cause drowsiness and dizziness (respiratory tract	The substance was classified as Category 1 (inhalation: respiratory system) and Category 3 (airway irritant) because in Priority 1 there is an accident case example in which the substance affected the respiratory system after inhalation in humans, and a report of airway irritation properties (ACGIH (7th, 2001)).
		Category 1 (respiratory organs); Category 2 (bone, tooth)	Health hazard	Danger	repeated exposure; May cause damage to organs (bone, tooth) through prolonged or repeated exposure	The report that it affects the respiratory systems at the dose in which a guidance value is the range of Category 1 in inhalation experimant of rats, is written in the document of Priority 1 (ACGIH (7th, 2001)). Moreover, since there is description of fluoride deposition to bone and tooth of human in Priority 2((ICSC(J)(2003), SITTIG (4th, 2002) and HSFS (2000)), it was classified into Category 1 (respiratory system) and Category 2 (skeletal and teeth).
10	Aspiration hazard	Not applicable	-	-	-	Gas (GHS definition)

Environmental Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification	
	Classification not possible	-	-	-	No data available	
	Classification not possible	-	-	-	No data available.	