## **GHS Classification**

ID997

## Dimethyl sulfide

CAS 75-18-3

Date Classified: Jul. 24, 2006 (Environmental Hazards: Mar. 31, 2006)

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

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Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification				
1	Explosives	Not applicable	-	-	-	There are no chemical groups associated with explosive properties present in the molecules.				
2	Flammable gases	Not applicable	-	-	-	Liquid (GHS definition)				
3	Flammable aerosols	Not applicable	-	-	-	Not aerosol products				
4	Oxidizing gases	Not applicable	-	-	-	Liquid (GHS definition)				
5	Gases under pressure	Not applicable	-	-	-	Liquid (GHS definition)				
6	Flammable liquids	Category 2	Flame	Danger	Highly flammable liquid and vapour	Flash point: <23degC, Initial boiling point: >35degC, UNRTDG Class: 3, PG II				
7	Flammable solids	Not applicable	-	-	-	Liquid (GHS definition)				
8	Self-reactive substances and mixtures	Not applicable	-	-	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.				
9	Pyrophoric liquids	Not classified	-	-	-	Flash point: 206degC (NFPA, 12th, 1997)				
10	Pyrophoric solids	Not applicable	-	-	-	Liquid (GHS definition)				
11	Self-heating substances and mixtures	Not classified	-	-	-	UNRTDG Class: 3				
12	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	-	The chemical structure of the substance does not contain metals or metaloids(B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)				
13	Oxidizing liquids	Not applicable	-	-	-	Organic compounds containing no oxygen, fluorine and chlorine.				
14	Oxidizing solids	Not applicable	-	-	-	Liquid (GHS definition)				
15	Organic peroxides	Not applicable	-	-	-	Containing no -0-0- structure				
16	Corrosive to metals	Not classified	_	-	_	UNRTDG Class: 3				

## **Health Hazards**

	ard class	Classification	svmbol	signal word	hazard statement	Rational for the classification
		Classification	Symbol	Signal Word		
1	Acute toxicity (oral)	Category 5	-	Warning	May be harmful if	SPECIES: Rat ENDPOINT: LD50 VALUE: 3300 mg/kg REFERENCE SOURCE: RTECS (2006)
1	Acute toxicity (dermal)	Not classified	-	-	-	It was set as the outside of Category. Based on the description that death was not observed at 5000mg/kg in the test using rabbits (ACGIH (2004)), and rabbit LD50 value: >5000mg/kg (PATTY (4th, 1994)).
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Liquid (GHS definition)
1	Acute toxicity (inhalation: vapour)	Not classified	-	-	-	Based on rat LC50 (4 hours) value: 40250ppm (equivalent: 102.07mg/L) (ACGIH, 2004, PATTY 4th, 1994), it was judged as the vapor with almost no mist from its vapor pressure. And it was classified as out of Category by the ppm concentration standard.
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2	Skin corrosion / irritation	Category 3	-	Warning	Causes mild skin irritation	There was no concrete case report. But it was set as Category 3 from description that it was the very slight skin stimulativeness (PATTY (4th, 1994)).
3	Serious eye damage / eye irritation	Category 2B	-	Warning	Causes eye irritation	We classified it as Category 2B based on the description that the slight to middle stimulativeness was acknowledged and it recovered within four days in the test applied to the eyes of the rabbits (ACGIH (2004)).
4	Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	-	-	-	No data available
5	Germ cell mutagenicity	Classification not possible	-	-	-	Classification not possible due to lack of data
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		-	-	-	Insufficient data available.
9 Specific target organs/systemic toxicity following repeated exposure	Not classified	-	-	-	We classified it as Out Of Category based on the description that in the 14-week oral study using the rat the serious toxic effect was not observed with the dose which exceeds the guidance value range of Category 2 (ACGIH (2004) and PATTY (4th, 1994)).
10 Aspiration hazard	Classification not possible	-	-	-	No data available

## **Environmental Hazards**

Hazard class		Classification	symbol	signal word	hazard statement	Rational for the classification		
	11 Hazardous to the aquatic environment (acute)	Not classified	-	-		It carried out the outside of Category from 96-hour LC50>100mg/L of fishes (Oryzias latipes) (MOE eco-toxicity tests of chemicals, 1998).		
	11 Hazardous to the aquatic environment (chronic)	Not classified	-	1	-	Since not water-insoluble (aqueous solubility =22030mg/L(PHYSPROP Database, 2005))and acute toxicity is low.		