## **GHS Classification**

ID970

## Methane, dimethoxy-

CAS 109-87-5 Physical Hazards

Date Classified: Jun. 20, 2006 (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	-	-	-	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	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	-	-	-	Not ignite spontaneously on coming into contact with air at normal temperatures
10	Pyrophoric solids	Not applicable	-	-	-	Liquid (GHS definition)
11	Self-heating substances and mixtures	Classification not possible	-	-	-	Test methods applicable to liquid substances are not available
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 oxygen (but not chlorine and fluorine) chemically bonded only to carbon and hydrogen (but not to other elements).
14	Oxidizing solids	Not applicable	-	-	-	Liquid (GHS definition)
15	Organic peroxides	Not applicable	-	-	-	Organic compounds containing no -0-0- structure
16	Corrosive to metals	Classification not	-	_	_	Classification not possible due to lack of data

## **Health Hazards**

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Not classified	-	_	-	Not classified because of
1 Acute toxicity (dermal)	Not classified	-	-	_	Based on rabbits lethal dose: >16mL/kg (reduced value: >21654mg/kg) (RTECS, 2005), it was set as the outside of Category.
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	_	Liquid (GHS definition)
Acute toxicity (inhalation: vapour)	Not classified	-	ı	-	Based on mouse LC50 (7 hours) value: 18354ppm (4-hour equivalent: 75.407mg/L) (ACGIH 7th, 2001) or about 18000ppm (4-hour equivalent: 73.953mg/L) (PATTY, 4th (1994)), which vapor pressure indicates steam with almost no mist. 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 2	Exclamation mark	Warning	Causes skin irritation	There was no concrete case report. But it was set as Category 2 from description that the skin was stimulated (ICSC (J) (1994), HSDB (2005), HSFS (2004), and SITTIG (4th, 2002)).
3 Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning		We classified it as Category 2A based on the description that the irritant property on the eyes of the guinea pigs was moderate (PATTY (4th, 1994)).
	Respiratory 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

		Category 3 (narcotic effects, respiratory tract irritation)	Exclamation mark		drowsiness and	Because of descriptions in ACGIH (7th, 2001) referring to that anesthetic actions were confirmed in a inhalation exposure test using guinea pigs and these actions have been used as anesthetics to humans, and of descriptions in ICSC (J) (1994), HSDB (2005), HSFS (2004), and SITTIG (4th, 2002) referring to that respiratory tracts were stimulated, it was judged as Category 3 (anesthetic actions, respiratory irritation).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	Classification not possible due to lack of data
10	· ·	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 96-hour LC50=6.99*106microg/L of fishes (Fathead minnows) (AQUIRE, 2003).		
11 Hazardous to the aquatic environment (chronic)	Not classified	-	ı	ı	Since not water-insoluble (aqueous solubility =2.44*105mg/L(PHYSPROP Database, 2005)) and acute toxicity is low.		