GHS Classification

ID969

methyl methanesulphonate

CAS 66-27-3 Physical Hazards

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

hysical 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	-	-	-	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	-	1	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	ı	-	Liquid (GHS definition)
5 Gases under pressure	Not applicable	-	1	_	Liquid (GHS definition)
6 Flammable liquids	Not classified	-	ı	-	Flash point: >93degC
7 Flammable solids	Not applicable	-	1	_	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	Classification not possible	-	-	-	No data available
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	Classification not possible	-	-	-	No data available
14 Oxidizing solids	Not applicable	-	-	-	Liquid (GHS definition)
15 Organic peroxides	Not applicable	-	_	_	Containing no -0-0- structure
16 Corrosive to metals	Classification not possible	-	-	-	No data available

Health Hazards

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
1	Acute toxicity (oral)	Category 3	Skull and crossbones	Danger	Lovic it cwallowed	SPECIES: Rat ENDPOINT: LD50 VALUE: 225 mg/kg REFERENCE SOURCE: HSDB (2005), RTECS (2005)		
1	Acute toxicity (dermal)	Classification not possible	-	-	-	No data available		
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Liquid (GHS definition)		
1	Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available		
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available		
		Classification not possible	-	-	-	Classification not possible due to lack of data		
3	irritation	Classification not possible	-	-	-	Insufficient data available.		
4	Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	-	-	-	No data available		

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5	Germ cell mutagenicity	Category 1B	Health hazard		May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Since there is the positive result in the dominant fatality examination and reciprocal translocation examination using the mouse which is an in vivo multigeneration mutagenicity test using a germ cell (IARC 71, 1999), it is set as Category 1B.
6	Carcinogenicity	Category 1B	Health hazard	Danger		Since it was classified into group 2A (IARC 71, 1999) in IARC and R (NTP RoC 11th, 2005) in NTP, it was considered as Category 1B.
7	Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of	Although there was no description about general toxicity of parent animals, it was considered as Category 2 based on the description that the fetus lethal action was observed in the single-dose oral administration study to the male mice (RTECS (2005)).
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	_	-	_	Insufficient data available.
9	toxicity following repeated	Classification not possible	-	-	-	Classification not possible due to lack of data
10	•	Classification not possible	_		_	No data available

Environmental Hazards

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H	azard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
	11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	Insufficient data available.		
	11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	ı	-	Classification not possible due to lack of data		