GHS Classification

ID150

diethylmercury

CAS 627-44-1 Physical Hazards

Date Classified: Mar. 23, 2006

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

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Explosives	Classification not possible	-	Ī	-	No data available
2	Flammable gases	Not applicable	-	-	_	Liquid (GHS definition)
	Flammable aerosols	Not applicable	-	-	_	Not aerosol products
4	Oxidizing gases	Not applicable	-	-	_	Liquid (GHS definition)
	Gases under pressure	Not applicable	-	-	_	Liquid (GHS definition)
6	Flammable liquids	Category 2	Flame	Danger	Highly flammable liquid and vapour	Flash point: <21degC, Boiling Point: 159degC
7	Flammable solids	Not applicable	-	-	-	Liquid (GHS definition)
8	Self-reactive substances and mixtures	Classification not possible	-	-	-	No data available
9	Pyrophoric liquids	Classification not possible	-	ı	-	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	Classification not possible	-	i	-	No data available
13	Oxidizing liquids	Not applicable	-	-	-	Organic compounds containing no oxygen, fluorine and chlorine.
14	Oxidizing solids	Not applicable	-	-	_	Liquid (GHS definition)
	Organic peroxides	Not applicable	-	-	-	There are no chemical groups associated with peroxide present in the molecule.
16	Corrosive to metals	Classification not possible	-	-	-	No data available

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Category 3	Skull and crossbones	Danger		SPECIES: Rat ENDPOINT: LD50 VALUE: 51mg/kg REFERENCE SOURCE: RTECS (2004)
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)	Category 1	Skull and crossbones	Danger		It classified as Category 1 based on rat LC50 = 24.4ppm (0.258mg/L) (RTECS (2004)). [special note] Although exposure time is unknown, assuming this value is for either 1h, 2 h, 8 h, or 24 h and convert each into a 4h value, it will be 12.2, 17.3, 34.5, or 59.8ppm, which all fall into Category 1.
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
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	Classification not possible	-	-	-	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	Category 2	Health hazard	Warning	damaging fertility or	Although the influence on mother animal is unknown, rat fetal mortalities is reported (RTECS (2004), Priority 2). Moreover, as a reference, although it is not information source of health toxicity, it is reported extension of the heating season, decline in a conception rate in female rat and decreased number and motility of sperm (gangolli (2nd, 1999)). From above result, it was classified into Category 2.
	Specific target organs/systemic toxicity following single exposure		-	-	_	Insufficient data available.
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (nervous system)	Health hazard	Danger		It has the the effects to the nervous system of human (ATSDR (1999), RTECS (2004)), and in ACGIH/TLV, 2004, CNS is indicated as Mercury, as Hg, and Alkyl compounds. It was classified into Category 1 (nervous system).
10	Aspiration hazard	Classification not possible	-	-	-	No data available

Environmental Hazards

Hazard	d class	Classification	symbol	signal word	hazard statement	Rational for the classification
	nuironment (aquta)	Classification not possible	-	-	-	Insufficient data available.
	:	Classification not possible	ı	-	-	Classification not possible due to lack of data