GHS Classification

ID420 CAS

Dibromotetrafluoroethane; Halone-2402

Date Classified: Nov. 20, 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	_	_	-	Containing no chemical groups with explosive properties		
2	Flammable gases	Not applicable	-	_	-	Classified as "liquid" according to GHS definition (1,2-dibromo-1,1,2,2-tetrafluoroethane).		
	Flammable aerosols	Not applicable	-	ı	-	Not aerosol products		
4	Oxidizing gases	Not applicable	_	ı	_	Classified as "liquid" according to GHS definition (1,2-dibromo-1,1,2,2-tetrafluoroethane).		
5	Gases under pressure	Not applicable	-	ı	-	Classified as "liquid" according to GHS definition (1,2-dibromo-1,1,2,2-tetrafluoroethane).		
6	Flammable liquids	Not classified	1	-	-	Non-flammable (1,2-dibromo-1,1,2,2-tetrafluoroethane, HSDB (2006))		
7	Flammable solids	Not applicable	-	ı	-	Classified as "liquid" according to GHS definition (1,2-dibromo-1,1,2,2-tetrafluoroethane).		
8	Self-reactive substances and mixtures	Not applicable	-	-	_	Containing no chemical groups with explosive or self-reactive properties		
9	Pyrophoric liquids	Not classified	-	_	-	Non-flammable (1,2-dibromo-1,1,2,2-tetrafluoroethane, HSDB (2006)).		
10	Pyrophoric solids	Not applicable	-	-	-	Classified as "liquid" according to GHS definition (1,2-dibromo-1,1,2,2-tetrafluoroethane).		
11	Self-heating substances and mixtures	Not classified	_	-	-	Non-flammable (1,2-dibromo-1,1,2,2-tetrafluoroethane, HSDB (2006))		
12	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	1	_	Containing no metals or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)		
13	Oxidizing liquids	Not applicable	_	ı	_	Organic compounds containing fluorine (but not oxygen and chlorine), with the fluorine bound to carbon and hydrogen (but not to other elements)		
14	Oxidizing solids	Not applicable	_	1	_	Classified as "liquid" according to GHS definition (1,2-dibromo-1,1,2,2-tetrafluoroethane).		
15	Organic peroxides	Not applicable	_	ı	_	Organic compounds containing no "-O-O-" structure		
16	Corrosive to metals	Classification not possible	_	_	_	Test methods applicable to gaseous substances are not available (boiling point: 47.35degC (1,2-dibromo-1,1,2,2-tetrafluoroethane, HSDB (2006), test temperature: 55degC). As for the isomers with boiling point of >55degC, classification is not possible due to lack of data.		

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	
1 Acute toxicity (oral)	Not classified	_	_	_	Based on the rat LD50 (oral route) value of 54,650mg/kg (RTECS (2006)) (dibromotetrafluoroethane).
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	ı	-	-	Due to the fact that the substance is a liquid according to the GHS definition and inhalation of its gas is not expected.
1 Acute toxicity (inhalation: vapour)	Category 5	-	Warning	May be harmful if inhaled	Based on the rat LC50 (4 hour inhalation of vapour) value of 584mg/L (RTECS (2006)) was lower than 90% of the saturated vapour concentration (429,000ppm) under a saturated vapour pressure of 3.25+10^(+2)mmHg (25degC) [equivalent to 43.3kPa (25degC)] (HSDB (2006)), the substance was considered as "vapour" and classified as Category 5. (1,2-dibromotetrafluoroethane)
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
	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization) — (Skin sensitization) —	Respiratory sensitization: No data available 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
8 Specific target organs/systemic toxicity following single exposure	Category 3 (narcotic effects)		Warning	(Narcotic effects) May cause drowsiness or dizziness	Based on the evidence from animal studies including "somnolency (reduced locomotor activity) and ataxia" (RTECS (2006)).
exposure	Classification not possible	-	-	_	Insufficient data available
10 Aspiration hazard	Classification not possible	ı	ı	_	No data available

Environmental Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	No data available
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	No data available