

GHS Classification

ID1347

bromoacetone

CAS 598-31-2

Date Classified: Feb. 20, 2007 (Environmental Hazards: Mar. 31, 2006)

Physical 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	–	–	–	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 No. 1569, Class: 6.1(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	–	–	–	UNRTDG is classified into 6.1 (3) and II according to the U.N. number (1569) peculiar to the quality of a genuine article. Since 4.2 which indicates spontaneous combustibility was not attached, it carried out the outside of Category.
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 metalloids(B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At).
13 Oxidizing liquids	Not applicable	–	–	–	Organic compounds containing oxygen chemically bonded only to carbon (but not to other elements).
14 Oxidizing solids	Not applicable	–	–	–	Liquid (GHS definition)
15 Organic peroxides	Not applicable	–	–	–	Organic compounds containing no –O–O– structure
16 Corrosive to metals	Not classified	–	–	–	UNRTDG is classified into 6.1 (3) and II according to the UNRTDG No. (1569). Since 8 which indicates causticity was not attached, it was considered as the outside of Category.

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Classification not possible	–	–	–	No data available
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	Fatal if inhaled	It was classified as Category 1 based on rat inhalation administration test LC50 value of 0.056mg/L/4H (0.112mg/L/1H) (HSDB, 2003).
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	–	–	–	No data available
2 Skin corrosion / irritation	Category 2	Exclamation mark	Warning	Causes skin irritation	It was set to category 2 from the description that stimulus on the human skin at serious degree (Severe), redness, and hurts were seen (ICSC(J)2005; HSDB, 2003; HSFS, 2002).
3 Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning	Causes serious eye irritation	Severe stimulus, redness, pain, and haze eyes are caused in human eyes (ICSC(J), 2005; HSFS, 2002), and human and rat eyes are stimulated (HSDB, 2003). So it is set as Category 2A-2B. In addition, detailed categorization is difficult.
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Classification not possible	(Respiratory sensitization)–; (Skin sensitization)–	(Respiratory sensitization)–; (Skin sensitization)–	(Respiratory sensitization)–; (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 (respiratory tract irritation)	Exclamation mark	Warning	may cause respiratory irritation or may cause drowsiness and dizziness (respiratory tract irritation)	It was considered as Category 3 (respiratory irritant) based on the description that it stimulates a human airway (ICSC (J) 2005; HSFS, 2002).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	–	–	–	No data available
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)	Classification not possible	–	–	–	No data available
11 Hazardous to the aquatic environment (chronic)	Classification not possible	–	–	–	No data available.