GHS Classification

Ono Classifica
ID539
CAS 109-64-8
Physical Hazards

1,3-Dibromopropane Date Classified: Sep. 20, 2006 (Environmental Hazards: Mar. 31, 2006)

hysical Hazards	Reference Manual:	GHS Classification Manua	l (Feb. 10, 2006)

Hazard 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
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Classified as "liquid" according to GHS definition
5 Gases under pressure	Not applicable	-	-	-	Classified as "liquid" according to GHS definition
6 Flammable liquids	Category 3	Flame	Warning	Flammable liquid and vapour	The flash point is 54degC (Dean (15th, 1999)), which is classified into "Category 3."
7 Flammable solids	Not applicable	-	-	-	Classified as "liquid" according to GHS definition
8 Self-reactive substances and mixtures	Not applicable	-	-	-	Containing no chemical groups with explosive or self-reactive properties
9 Pyrophoric liquids	Classification not possible	-	-	-	No data available
10 Pyrophoric solids	Not applicable	-	-	-	Classified as "liquid" according to 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	-	-	-	Containing no metals or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)
13 Oxidizing liquids	Not applicable	-	-	-	Organic compounds containing no oxygen, fluorine or chlorine
14 Oxidizing solids	Not applicable	-	-	-	Classified as "liquid" according to GHS definition
15 Organic peroxides	Not applicable	-	-	-	Organic compounds containing no "-O-O-" structure
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)	Classification not possible	-	_	-	No data available
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Due to the fact that the substance is "liquid" according to the GHS definition and inhalation of its gas is not expected.
1 Acute toxicity (inhalation:	Classification not possible	-	-	-	No data available
 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	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	-	-	-	Based on the absence of data on in vivo mutagenicity/genotoxicity tests and no positive data on in vitro mutagenicity tests (several indices).
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 1 (nervous system)	Health hazard	Danger	Causes damage to organs (nervous system)	Based on the evidence from animal studies including "salivation, reduced locomotor activity, abnormal gait, prone position and lateral position" (Report by the Ministry of Health, Labour and Welfare (2003)). The effects on experimental animals were observed at dosing levels within the guidance value ranges for Category 1.
9 Specific target organs/systemic toxicity following repeated exposure	Category 2 (blood system, liver)	Health hazard	Warning	May cause damage to organs through prolonged or repeated exposure (blood system, liver)	Based on the evidence from animal studies including "decreases in the red blood cell counts, hemoglobin, hematocrit, and lymphocyte fraction ratio and increases in the reticulocyte ratio and segmented neutrophil fraction ratio; increases in ASAT, ALAT, gamma-GTP, albumin, total cholesterol, phospholipids," (Report by the Ministry of Health, Labour and Welfare (2003)). The effects on experimental animals were observed at dosing levels within the guidance value ranges for Category 2.
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)	Category 2	-	-	Toxic to aquatic life	It was classified into Category 2 from 96 hours LC50=7.8mg/L of the fish (Oryzias Latipest) (MOE eco-toxicity tests of chemicals, 2003).
11 Hazardous to the aquatic environment (chronic)	Category 2	Environment			Although acute toxicity was Category 2 and the bio-accumulation potential was low (log Kow=2.37(PHYSPROP Database, 2005)), since there was no rapidly degrading (the decomposition by BOD: 48%(Existing Chemical Safety Inspections Data)), it was classified into Category 2.