

## GHS Classification

**ID355**

**CAS 4162-45-2**

### Physical Hazards

**2,2'-[Isopropylidenebis[(2,6-dibromo-4,1-phenylene)oxy]]diethanol**

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

Reference Manual: GHS Classification Manual (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 "solid" according to GHS definition
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Classified as "solid" according to GHS definition
5 Gases under pressure	Not applicable	-	-	-	Classified as "solid" according to GHS definition
6 Flammable liquids	Not applicable	-	-	-	Classified as "solid" according to GHS definition
7 Flammable solids	Classification not possible	-	-	-	No data available
8 Self-reactive substances and mixtures	Not applicable	-	-	-	Containing no chemical groups with explosive or self-reactive properties
9 Pyrophoric liquids	Not applicable	-	-	-	Classified as "solid" according to GHS definition
10 Pyrophoric solids	Classification not possible	-	-	-	No data available
11 Self-heating substances and mixtures	Classification not possible	-	-	-	Test methods applicable to liquid substances are not available - melting point: 107degC Howard, 1997), test temperature: 140degC
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	-	-	-	Classified as "solid" according to GHS definition
14 Oxidizing solids	Not applicable	-	-	-	Organic compounds containing oxygen (but not fluorine and chlorine), with the oxygen bound to carbon and hydrogen (but not to other elements)
15 Organic peroxides	Not applicable	-	-	-	Organic compounds containing no "-O-O-" structure
16 Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available

### Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Not classified	-	-	-	Based on the testing data of rat LD50 (oral route) of >5,000 mg/kg (EHC 172 (1995)).
1 Acute toxicity (dermal)	Not classified	-	-	-	Based on the testing data of rabbit LD50 (dermal route) of >2,000 mg/kg (EHC 172 (1995)).
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Due to the fact that the substance is "solid" according to the GHS definition and inhalation of its gas is not expected.
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	Due to the absence of fixed value, although the substance can be classified as Category 4 or Not classified, based on the LC50 value (4 hour) of >3.1ppm, calculated from the testing data of rat LC50 (1-hour inhalation of dust) of over 12.5 mg/L (EHC 172 1995).
2 Skin corrosion / irritation	Not classified	-	-	-	Based on the description in the report on primary skin irritation tests (EHC 172 (1995)): mild erythema and edema are observed in 1/3 specimens upon application and after 48 hours of application to unbroken skin; no reaction is observed in broken skin; the score of primary irritation is 0.2, with no primary skin irritation observed. The substance does not cause primary skin irritation, though the results of 4-hour application are not available.
3 Serious eye damage / eye irritation	Not classified	-	-	-	Based on the description in the report on eye irritation tests (EHC 172 (1995)): "the substance causes no eye irritation."
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	-	-	-	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 negative data on in vitro mutagenicity tests (Reverse mutation tests using bacteria), described in CER1 Hazard Data 2000-39 (2001).
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	Classification not possible	-	-	-	Insufficient data available
9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	Insufficient 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)	Category 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 96 hours LC50=0.54mg/L of the fish (Fathead Minnows) (EHC172, 1996).

11	Hazardous to the aquatic environment (chronic)	Category 1	Environment	Warning	Very toxic to aquatic life with long lasting effects	Since although acute toxicity was Category 1 and bio-accumulation was low (BCF=250 (existing chemical safety inspections data)), there was no rapidly degrading (BIOWIN), it was classified into Category 1.
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