

GHS Classification

ID753

CAS 101-80-4

Physical Hazards

4,4'-oxybisbenzenamine

Date Classified: Jul. 24, 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	-	-	-	There are no chemical groups associated with explosive properties present in the molecules.
2 Flammable gases	Not applicable	-	-	-	Solid (GHS definition)
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Solid (GHS definition)
5 Gases under pressure	Not applicable	-	-	-	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	-	Solid (GHS definition)
7 Flammable solids	Classification not possible	-	-	-	No data available
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 applicable	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Classification not possible	-	-	-	It is an organic compound whose flash point is 218 degC (Lange (16th, 2005)), and does not ignite in the air at room temperature.
11 Self-heating substances and mixtures	Classification not possible	-	-	-	No data 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	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Not applicable	-	-	-	Organic compounds containing oxygen (but not chlorine and fluorine) and the oxygen is chemically bonded only to carbon (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)	Category 4	Exclamation mark	Warning	Harmful if swallowed	SPECIES: Rat ENDPOINT: LD50 VALUE: 725 mg/kg REFERENCE SOURCE: HSDB (2003)
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1 Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Not classified	-	-	-	It was classified as out of Category from the statement of no stimulativeness in rat examination (DFGOTvol.6 (1994)).
3 Serious eye damage / eye irritation	Not classified	-	-	-	It was carried out the outside of Category from the statement of having no stimulativeness (DFGOTvol.6 (1994)) by the examination of the rabbit.
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Category 1	(Respiratory sensitization)-; (Skin sensitization)Exclamation mark	(Respiratory sensitization)-; (Skin sensitization)Warning	(Respiratory sensitization)-; (Skin sensitization)May cause allergic skin reaction	Respiratory sensitization: Since there is no data, it cannot be classified. Skin sensitization: It was classified into Category 1 according to the statement that a test with guinea pigs identified the sensitization (DFGOTvol.6 (1994)).
5 Germ cell mutagenicity	Classification not possible	-	-	-	For In vitro examination, we found the descriptions that it gave positive by the Ames test (HSDB (2003)), and it gave positive for the chromosome aberration test (DFGOTvol.6 (1994)). Although we found a statement that it gave negative (HSDB (2003)) by the in vivo irregular DNA composition examination in the rat and the mouse, we could not classify it for the insufficiency of data.

6	Carcinogenicity	Category 2	Health hazard	Warning	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	It classified into 2. From it being classified into 2B according to IARC, and being classified into 2B in Japan Society for Occupational Health.
7	Toxic to reproduction	Classification not possible	-	-	-	Although it is classified into Repr.Cat.3;R62 in EU, it cannot be classified due to no supported data.
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	-	No data available.
9	Specific target organs/systemic toxicity following repeated exposure	Category 2 (blood, central nervous system)	Health hazard	Warning	May cause damage to organs (blood, central nervous system) through prolonged or repeated exposure	It was classified into Category 2 according to the statement in which cyanosis, respiratory distress, and lethargy were acknowledged in feeding administration to a rat within the guidance value of Category 2 (DFGOTvol.6 (1994)).
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	-	-	-	Insufficient data available.
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	Classification not possible due to lack of data