

GHS Classification

ID1153

cadmium bromide

CAS 7789-42-6

Date Classified: Sep. 20, 2006 (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	-	-	-	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	Not classified	-	-	-	Non-combustible (HSDB, 2005)
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	Not classified	-	-	-	Non-combustible (HSDB, 2005)
11 Self-heating substances and mixtures	Not classified	-	-	-	Not combustible. (HSDB (2005))
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water (the water solubility is obtained)
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Classification not possible	-	-	-	No data available
15 Organic peroxides	Not applicable	-	-	-	Inorganic compound
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	Category 4 based on SPECIES: Rat; ENDPOINT: LD50;VALUE:322mg/kg; REFERENCE SOURCE: RTECS (2004)
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	Classification not possible	-	-	-	There is a statement that humans skin indicates irritation (HSDB (2005)). So data is insufficient, it cannot be classified.
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	Although there is a description that it irritates to the human eye in HSDB (2005), since data is insufficient, it cannot be classified.
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	-	-	-	Although there is knowledge that the weak chromosome aberration indecement action was seen in vitro (HSDB, 2005), there is no data of in vivo. So it cannot be classified because of insufficient data. In addition, the inorganic cadmium compound is classified into the germ cell mutagenicities 3A (equivalent to GHS Category 1B-2) according to MAK/BAT (2005).

6	Carcinogenicity	Category 1A	Health hazard	Danger	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	The classification as cadmium compounds in IARC58 (1993), NTP RoC(11th, 2005), and industrial hygiene academic society advice (2005) (Group 1, Known to be human carcinogens, 1, respectively) corresponds to Category 1A, and the classification as cadmium compounds in IRIS(1992), ACGIH-TLV(2005) (B1, A2, respectively) corresponds to Category 1B. But more severe classification is applied. Therefore, it was classified into Caategory 1A.
7	Toxic to reproduction	Classification not possible	-	-	-	Although SITTIG (4th, 2002) has a statement that the teratogenicity and impact on reproductive potential is suspected by humans, data is insufficient, it cannot classify.
8	Specific target organs/systemic toxicity following single exposure	Category 2 (respiratory)	Health hazard	Warning	May cause damage to organs (respiratory)	Since there is the description that in HSDB (2005), HSFS (2001), and SITTIG (4th, 2002) of Priority 2 document, it effects (respiratory irritation, pulmonary edemas etc.) on the human respiratory systems, it was considered as Category 2 (respiratory systems).
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (kidneys)	Health hazard	Danger	causes damage to organs (kidneys) through prolonged or repeated exposure	Since there is description that cadmium compounds have renal effects (ACGIH-TLV (2005) of Priority 1) and description of the renal effects by this product (HSFS (2001) and SITTIG (4th, 2002) in Priority 2) , it was classified into Category 1 (kidney). In addition, although there is description of effects on blood, lungs, etc. to human by this product (HSFS (2001) and SITTIG (4th, 2002) in Priority 2 document), the data which is supported was not found.
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