GHS Classification

ID1033

cadmium cyanide

CAS 542-83-6 Physical Hazards

Date Classified: Mar. 15, 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	-	-	-	Solid (GHS definition)
3 Flammable aerosols	Not applicable	-	ı	_	Not aerosol products
4 Oxidizing gases	Not applicable	1	ı	_	Solid (GHS definition)
5 Gases under pressure	Not applicable	1	1	_	Solid (GHS definition)
6 Flammable liquids	Not applicable	1	ı	_	Solid (GHS definition)
7 Flammable solids	Not classified	1	1	_	Non-combustible (BGIA, GESTIS-database on hazardous substancess, Accessed in 2006)
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	-	ı	_	Non-combustible (BGIA, GESTIS-database on hazardous substancess, Accessed in 2006)
11 Self-heating substances and mixtures	Not classified	ı	ı	-	Non-combustible (BGIA, GESTIS-database on hazardous substancess, accessed in 2006)
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	Not applicable	_	1	_	Inorganic compounds containing no oxygen and halogen.
15 Organic peroxides	Not applicable	-	ı	-	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
	Category 2	Skull and crossbones	Danger	Fatal if swallowed	SPECIES: Rat ENDPOINT: LD50 VALUE: 16mg/kg REFERENCE SOURCE: RTECS(2004)
	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
	Classification not possible	-	-	-	No data available
	Classification not possible	-	-	-	No data available
	Classification not possible	-	ı	-	No data available
irritation	Classification not possible	-	-	-	No data available
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	No data available
	Classification not possible	-	ı	-	No data available

6	Carcinogenicity	Category 1A-1B	Health hazard	Danger	exposure if it is conclusively proven that no other routes	The classification (Group 1, respectively Known to be human carcinogens, 1) as a cadmium compounds of IARC53 (1993), NTP RoC (11th, 2005), and industrial hygene academic recommendation (2004) (Group 1, respectively Known to be human carcinogens, 1) is equivalent to Category 1A, the classification of IRIS (1992) and ACGIH-TLV (2004) as cadmium compounds corresponds (B1, A2 respectively) is Category 1B. Since the newness of the source of both Category etc. was almost equivalent. So it was considered as Category 1A–1B. [view] It is more desirable to be considered as 1A from a viewpoint of safety, when subdivision was needed.
7	Toxic to reproduction	Category 1B	Health hazard			It is supposed that reproductive toxicity is observed in sire as cadmium in California Proposition 65 (California EPA/OEHHA, 2005). It was considered as Category 1B.
8	Specific target organs/systemic toxicity following single exposure		-	-	-	No data available.
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (kidneys)	Health hazard	Danger	organs (kidneys) through prolonged or repeated	In ACGIH-TLV (2004; Priority 1 document), it is supposed that it has effect on the kidney in repeated exposure of cadmium compounds. Therefore we classified it into Category 1 (kidney).
10	-	Classification not	-	-	-	No data available

Environmental Hazards

H	azard 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		