GHS Classification

ID1142

dimercury dichloride

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

CAS 7546-30-7 Physical Hazards Reference Manual: GHS Classification Manual (Feb. 10, 2006)

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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 (ICSC (J) (2000))
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 (ICSC (J), 2000)
11 Self-heating substances and mixtures	Not classified	_	-	_	Not combustible (ICSC(J) (2000))
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 3	oreachenes	Danger	Toxic if swallowed	SPECIES: Rat; ENDPOINT: LD50;VALUE:210mg/kg; REFERENCE SOURCE: RTECS (2003)
1 Acute toxicity (dermal)	Category 4	Exclamation mark	Warning	Harmful in contact with skin	It is based on rat dermal LD50= 1500mg/kg (RTECS, 2003).
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	Category 2	Exclamation mark	Warning	Causes skin irritation	From description (ICSC, 2000;CICAD, 50, 2003 ;DFGOT [as inorganic mercury compounds], vol.15, 2001 [as inorganic mercury compounds]) that the possibility indicates humans skin irritation. It thought that there was irritation and was set as Category 2.
3 Serious eye damage / eye irritation	Category 2B	-	Warning	Causes eye irritation	It was classified into Category 2B due to the description that it irritates to the human eye (ICSC, 2000) .
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Category1	ation mark	(Respiratory sensitization)-; (Skin sensitization)W arning		Respiratory sensitization: no data available. Skin sensitization: since metallic mercury and inorganic mercury compound (as Hg) were made into those with skin sensitization (MAK/BAT, 2005; DFGOT, vol.15, 2001), they were set to category 1.
5 Germ cell mutagenicity	Category 2	Health hazard	Warning	that no other routes of exposure cause the hazard)	In ATSDR (1999), it estimated that mercury and mercury compounds induced chromosomal abnormality to the animal somatic cell in an in vivo. So they were set to Category 2.
6 Carcinogenicity	Not classified	-	-		As inorganic mercury compounds, since it is categorized as IARC Group 3 (IARC, 58, 1993) and ACGIH A4 (ACGIH-TLV, 2004), it was out of the Category.

7	Toxic to reproduction	Category 2	Health hazard	Warning	the undorn child	As mercury and mercury compounds or inorganic mercuries, the effect on generating (California EPA, Proposition 65 List of Chemicals, 2005) and reproductive (ACGIH-TLV, 2004) are descrived. And it was set as Category 2.
			Health hazard; Exclamation mark	Danger; Warning	or may cause	Since as description in the humans in Priority 1 document, target organ as inorganic mercury compounds is the kidney (DFGOT, vol.15, 2001), and respiratory irritant was described as description in the humans in Priority 2 document (ICSC, 2000), it was considered as Category 1 (kidney) and Category 3 (respiratory irritant).
9	exposure	Category 1 (central nervous system, kidneys)	Health hazard	Danger	nervous system, kidneys) through	Because of the description in Priority 1 document that it affects central nervous system and kidneys of human body as inorganic mercury compounds or calomel-containing laxatives (ACGIH-TLV, 2004; EHC, 118, 1991; CICAD, 50, 2003), and of suggestion in Priority 2 document that it affects nervous system and a kidney (ICSC, 2000), it was classified into Category 1 (central nervous system, kidney).
10		Classification not possible	-	-	-	No data available

Environmental Hazards

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Ha	azard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
1		Classification not possible	-	-	-	No data available		
1		Classification not possible	_	-	-	No data available.		