GHS Classification

ID1053 CAS 1335-31-5 Physical Hazards

dimercury dicyanide oxide

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

hysical Hazards Reference Manual: GHS Classification Manual (Feb. 10, 2006)

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Not classified	-	-	-	Not classified based on UNRTDG No. 1642 (containing a hebetude medicine), Class: 6.1, PGIII. To put a hebetude medicine prevents the substance from exploding.
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	-	-	-	ERG (Guide151, 2004) corresponding to the UNRTDG No. (1642) (with insensible agent) has a statement that it is "nonflammable", and it was classified as out of Category.
8 Self-reactive substances and mixtures	Not classified	-	-	-	Not classified based on UNRTDG No. 1642(containing a hebetude medicine) Class: 6.1, PGII
9 Pyrophoric liquids	Not applicable	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	-	-	ERG (Guide151, 2004) corresponding to the UNRTDG No. (1642) (insensible-agent containing) indicates "nonflammable", and it was defined as "out of Category".
11 Self-heating substances and mixtures	Not classified	-	-	-	Since ERG (Guide151, 2004) corresponding to the U.N. number (1642) (an insensible agent is entered) peculiar to a substance has a "nonflammable" statement, it carried out the outside of category.
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 classified	-	_	-	UNRTDG No. 1642 (desensitized), Class: 6.1; PG II (Not 5.1).
15 Organic peroxides	Not applicable	-	-	-	Inorganic compound
16 Corrosive to metals	Classification not	-	-	-	Test methods applicable to solid substances are not available.

Health Hazards

	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	- · · · · · · · · · · · · · · · · · · ·	Classification not possible	-	ı	-	No data available
1	* 1	Classification not possible	_	ı	-	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1	, , ,	Classification not possible	_	ı	-	No data available
1		Classification not possible	_	ı	-	No data available
2	Skin corrosion / irritation	Category 3	-	Warning		From description with the possibility which indicates skin irritation in humans (DFGOT, vol.15, 2001[as inorganic mercury compounds]; STTIG, 4th, 2002;HSFS, 1993), mild irritation was considered to be a certain thing, and it was set to Category 3.
3	Serious eye damage / eye irritation	Category 2B	-	Warning	Causes eye irritation	Due to the description that it irritates to the eye (STTIG, 4th, 2002;HSFS, 1993), it was classified into Category 2B.
4		Respiratory sensitization: Classification not possible; Skin sensitization: Category1	sensitization)-; (Skin sensitization)Exclam			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.

	Germ cell mutagenicity				Suspected of	
5	Gerii ceri indagenicity	Category 2	Health hazard	warning	causing genetic defects (state route of exposure if it is	In ATSDR (1999), since it estimated that mercury and mercury compounds induced chromosomal abnormality to the animal somatic cell in an in vivo, they were set to Category 2.
6	Carcinogenicity	Not classified	_	-	-	As inorganic mercury compounds, it was out of the Category. Since it is classified into IARC Group 3 (IARC, 58, 1993) and ACGIH A4 (ACGIH-TLV, 2004).
7	Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of damaging fertility or the undorn child cause damage to	Since the effect on generating (California EPA, Proposition 65 List of Chemicals, 2005) and reproductive (ACGIH-TLV, 2004) was indicated as mercury and mercury compounds or inorganic mercuries, it was considered as Category 2.
8	Specific target organs/systemic toxicity following single exposure	Category 1 (kidneys); Category 3 (respiratory tract irritation)	Health hazard; Exclamation mark		organs (kidneys); May cause respiratory irritation	The substance was classified as Category 1 (kidneys) and Category 3 (airway irritant) based on the reports concerning humans in Priority 1 documents that the target organs of the substance in the form of an inorganic mercury compound are the kidneys (DFGOT, vol.15, 2001), and that it has irritant properties as cyanide compounds (ACGIH-TLV, 2004), and on the report of lung irritant properties in a Priority 2 document (HSFS, 1993).
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (central nervous system, kidneys)	Health hazard	Danger	hervous system,	Since the effect on the central nervous systems and the kidney of humans was described as inorganic mercury compounds in Priority 1 document (ACGIH-TLV, 2004;EHC, 118, 1991), it was classified into Category 1 (a central nervous systems, the kidney).
10	Aspiration hazard	Classification not possible	-	-	-	No data available

Environmental Hazards

Ha	zard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
1	1 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	No data available		
1	1 Hazardous to the aquatic environment (chronic)	Classification not possible	-	ı	-	No data available.		