

## GHS Classification

**ID1058**

**dimercury di(acetate)**

**CAS 631-60-7**

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	-	-	-	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. (1629) has a statement that it is "nonflammable", and it was classified as out of Category.
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	-	-	-	Not classified because of "Non-combustible" ERG(Guide151, 2004) corresponding to UNRTDG No. 1629
11 Self-heating substances and mixtures	Not classified	-	-	-	Since ERG (Guide151, 2004) corresponding to the U.N. number (1629) 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 (slightly soluble in water)
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Not classified	-	-	-	UNRTDG No. 1629, Class: 6.1; PG II (Not 5.1).
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	Skull and crossbones	Danger	Toxic if swallowed	SPECIES: Rat; ENDPOINT: LD50;VALUE:175mg/kg; REFERENCE SOURCE: RTECS (1994)
1 Acute toxicity (dermal)	Category 3	Skull and crossbones	Danger	Toxic in contact with skin	It is based on rat dermal LD50= 960mg/kg (RTECS, 1994).
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 3	-	Warning	Causes mild skin irritation	From the description with the possibility which indicates skin irritation in humans (DFGOT, vol.15, 2001 [as inorganic mercury compounds]), it was thought that there was mild irritation and it was set as Category 3.
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	No data available
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: 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	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	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 4.
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 unborn child	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)	Health hazard	Danger	Cause damage to organs (kidneys)	The substance was classified as Category 1 (kidneys) because there is a report concerning humans in a Priority 1 document (DFGOT, vol.15, 2001) that the target organs of the inorganic mercury compound are kidneys.
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (central nervous system, kidneys)	Health hazard	Danger	Causes damage to organs (central nervous system, kidneys) through prolonged or repeated exposure	Since effect on the central nervous system and renal to humans by inorganic mercury compounds was indicated in Priority 1 document (ACGIH-TLV, 2004;EHC, (118, 1991), it was classified into Category 1 (central nervous systems,kidney).
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	-	-	-	No data available
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	No data available.