

## GHS Classification

**ID1206**

**thallium acetate**

**CAS 563-68-8**

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	-	-	-	Non-combustible (CHRIS, U.S. Coast Guard, 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	-	-	-	Non-combustible (CHRIS, U.S. Coast Guard, Accessed in 2006)
11 Self-heating substances and mixtures	Not classified	-	-	-	Non-combustible (CHRIS, U.S. Coast Guard, accessed in 2006)
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water (soluble in water)
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 2	Skin and respiratory	Danger	Fatal if swallowed	Category 2 based on SPECIES: Rat; ENDPOINT: LD50; VALUE:41.3 mg/kg; REFERENCE SOURCE: PATTY (5th, 2001)
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	-	-	-	No data available
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	No data available
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	-	-	-	Classification not possible due to lack of data
6 Carcinogenicity	Classification not possible	-	-	-	No data available
7 Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of damaging fertility or the unborn child	Since there were descriptions that the weight loss and rib/spinal malformations were seen in rat and mouse fetuses (EHC 182 (1996)), and that abnormalities of the musculoskeletal system were seen in rat fetus (PATTY (5th, 2001)), it was set as Category 2.

8	Specific target organs/systemic toxicity following single exposure	Category 1 (nervous system); Category 2 (hair(alopecia))	Health hazard	Danger	Cause damage to organs (nervous system); May cause damage to organs (hair(alopecia))	In Priority 1 (PATTY (5th, 2001)), although sample sizes are small, since there is description that the peripheral neuropathy is caused, it was considered as Category 1 (nervous systems). Moreover, although there is description that alopecia in rat as a result of transdermal absorption (ACGIH (7th, 2001)), since it was not able to check to a guidance value, it was considered as Category 2 (hair (alopecia)).
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (nervous system); Category 2 (hair(alopecia))	Health hazard	Danger	Causes damage to organs (nervous system) through prolonged or repeated exposure; May cause damage to organs (hair(alopecia)) through prolonged or repeated	Since there are few description of neuropathy to humans (the document of Priority 1 (PATTY (5th, 2001))), it was classified into Category 1 (nervous systems). Moreover, since a alopecia is observed on a rat in the dose range of a guidance value which helps the classification to Category 2 (the document of Priority 1 (PATTY (5th, 2001), and IRIS (1990))), it was classified into Category 2 (hair (alopecia)).
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)	Category 3	-	-	Harmful to aquatic life	It was classified into Category 3 from 96-hour LC50=31000microg/L of fishes (grunion) (AQUIRE, 2003).
11 Hazardous to the aquatic environment (chronic)	Category 3	-	-	Harmful to aquatic life with long lasting effects	Classified into Category 3, since acute toxicity was Category 3, and it is a metallic compound, behavior in water and bioaccumulative potential are unknown.