

## GHS Classification

**ID87**

**CAS 7440-36-0**

**Antimony**

Date Classified: Apr. 20, 2006 (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	-	-	-	Containing no chemical groups with explosive properties
2 Flammable gases	Not applicable	-	-	-	Classified as "solid" according to GHS definition
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Classified as "solid" according to GHS definition
5 Gases under pressure	Not applicable	-	-	-	Classified as "solid" according to GHS definition
6 Flammable liquids	Not applicable	-	-	-	Classified as "solid" according to GHS definition
7 Flammable solids	Classification not possible	-	-	-	Classification not possible, because of the unidentified configuration and the absence of data. The substance, in the form of powder or vapor, is flammable and explosive (as far as metals are concerned, the finer the particles, the more dangerous they are), according to Sax (11th, 2004). Antimony powder is classified into Division 6.1 (UN Recommendations on the Transport of Dangerous Goods, UN#2871), while metal powder including but not limited to that of antimony (combustibles) (except those identifiable by name) is classified into Division 4.1, Packing Group II and III ((UN Recommendations on the Transport of Dangerous Goods, UN#3089).
8 Self-reactive substances and mixtures	Not applicable	-	-	-	Containing no chemical groups with explosive or self-reactive properties
9 Pyrophoric liquids	Not applicable	-	-	-	Classified as "solid" according to GHS definition
10 Pyrophoric solids	Classification not possible	-	-	-	No data available
11 Self-heating substances and mixtures	Classification not possible	-	-	-	No data available
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water; insoluble (ICSC, 1999)
13 Oxidizing liquids	Not applicable	-	-	-	Classified as "solid" according to GHS definition
14 Oxidizing solids	Not applicable	-	-	-	Inorganic substance containing no oxygen and halogen
15 Organic peroxides	Not applicable	-	-	-	Not organic compounds
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)	Classification not possible	-	-	-	Based on the rat LD50 (oral route) of 7,000mg/kg (RTECS (2004)) suggests a hazard category of "not classified" but "classification not possible" is considered appropriate, given that the data are those of Priority 2.
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Due to the fact that the substance is "solid" according to the GHS definition.
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Classification not possible	-	-	-	Based on the description in HSDB (2005) suggests "skin irritation," but "classification not possible" is considered appropriate, given that the data are those of Priority 2.
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	Based on the description in HSDB (2005) suggests "eye irritation," but "classification not possible" is considered appropriate, given that the data are those of Priority 2.
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) -	Respiratory sensitization: No data available Skin sensitization: No data available
5 Germ cell mutagenicity	Classification not possible	-	-	-	No data available
6 Carcinogenicity	Classification not possible	-	-	-	Classification not possible based on expert judgment, given the absence of toxicity data and existing classification.
7 Toxic to reproduction	Classification not possible	-	-	-	Insufficient data available
8 Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	-	No data available
9 Specific target organs/systemic toxicity following repeated exposure	Category 2 (respiratory organs)	Health hazard	Warning	Causes damage to organs through prolonged or repeated exposure (respiratory)	Based on the human evidence including "pulmonary damage, if exposed to metal vapour or metal oxide powder for a long period of time" (HSDB (2005)), and the evidence from animal studies including "interstitial fibrosis, enlargement and hyperplasia of the alveolar wall, metaplasia of the cuboidal/columnar epithelium" (HSDB (2005)). The effects on experimental animals were observed at dosing levels within the guidance value ranges for Category 2.
10 Aspiration hazard	Classification not possible	-	-	-	No data available

## Environmental Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
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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