

## GHS Classification

**ID1065**

**barium selenite**

**CAS 13718-59-7**

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	-	-	-	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	-	-	-	Since there are statements that "it does not decompose under incandescence" in guidance on handling toxic substance and highly poisonous substance (Jiji Press Co., latest versions, 2001) and that "nonflammable" in ERG corresponding to UN No.2630 (Guide 151 and 2004), this product was considered to be nonflammable and was classified as out of Category 2.
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	-	-	-	Since the guidance for handling toxic and deleterious substances (the latest version of Jiji Press Co., 2001) has a description "It does not decompose even under incandescence." and ERG (Guide151, 2004) corresponding UN No. 2630 indicates "nonflammable", this substance was considered to be nonflammable and was defined as "out of Category 2".
11 Self-heating substances and mixtures	Not classified	-	-	-	Toxic and Highly Poisonous Substance Handling Guidance (Jiji Press Co., latest versions, 2001) has the description "it does not decompose under incandescence." and ERG (Guide151, 2004) corresponding to UN No.2630 also states "nonflammable". Therefore, the this product was considered to be nonflammable and it was set to the outside of Category 2.
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water (insoluble 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)	Classification not possible	-	-	-	No data available
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	Category 2A-2B	Exclamation mark	Warning	Causes serious eye irritation	Although there was no data about this product, it irritates to the eye as selenium compound in ACGIH-TLV(2004). Since there was no data used as the index of subdivision, it was classified into Category 2A-2B. [Indication] 2A is recommended based on the safety, when the Category needs to subdivide.
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	-	-	-	No data available

6	Carcinogenicity	Not classified	-	-	-	As selenium compounds, it is categorized into D in IRIS (1993), is categorized into Group 3 in IARC9(1975), and barium compounds is categorized into D in IARC9 (1975). It was out of the Category.
7	Toxic to reproduction	Classification not possible	-	-	-	No data available
8	Specific target organs/systemic toxicity following single exposure	Category 3 (respiratory tract irritation)	Exclamation mark	Warning	may cause respiratory irritation or may cause drowsiness and dizziness (respiratory tract irritation)	No data available. NOTE: Classified into Category 3(Respiratory tract irritation). It is based on the evidence that selenium compounds are respiratory tract irritants (ACGIH-TLV (2004)).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	No data available
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.