

GHS Classification

ID1061

iron selenide

CAS 1310-32-3

Date Classified: May 24, 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 | Classification not possible | - | - | - | No data available |
| 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 | - | - | - | Even if it contacts the normal temperature air, it does not ignite spontaneously. (Merck (13th, 2001) has the description "It is stabilized in the air".) |
| 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 in water) |
| 13 Oxidizing liquids | Not applicable | - | - | - | Solid (GHS definition) |
| 14 Oxidizing solids | Not applicable | - | - | - | Inorganic compounds containing no oxygen and halogen. |
| 15 Organic peroxides | Not applicable | - | - | - | Inorganic compound |
| 16 Corrosive to metals | Classification not possible | - | - | - | No data 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) and is categorized into Group 3 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) | Although there are no data for this substance, it is reported in ACGIH-TLV (2004) that in the form of a selenium compound and it has airway irritant properties. The substance was classified as Category 3 (airway irritant). |
| 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. |