

GHS Classification

ID351

Diantimony pentoxide

CAS 1314-60-9

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 | Not classified | - | - | - | Non-flammable (converted into Sb2O3-Sb2O5 when heated, which is further converted into Sb2O4 at a temperature of 780degC, according to Chemical Encyclopedia (1972); oxygen atoms are lost in the reaction, which takes place in stages) |
| 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 | Not classified | - | - | - | Not pyrophoric when in contact with air at ordinary temperatures (converted into Sb2O3-Sb2O5 when heated, which is further converted into Sb2O4 at a temperature of 780degC, according to Chemical Encyclopedia (1972); oxygen atoms are lost in the reaction, which takes place in stages) |
| 11 Self-heating substances and mixtures | Not classified | - | - | - | Non-combustible (converted into Sb2O3-Sb2O5 when heated, which is further converted into Sb2O4 at a temperature of 780degC, according to Chemical Encyclopedia (1972); oxygen atoms are lost in the reaction, which takes place in stages) |
| 12 Substances and mixtures, which in contact with water, emit flammable gases | Not classified | - | - | - | Stable to water; slightly soluble (Merck, 13th, 2001) |
| 13 Oxidizing liquids | Not applicable | - | - | - | Classified as "solid" according to GHS definition |
| 14 Oxidizing solids | Classification not possible | - | - | - | Classification not possible due to the absence of data, though being inorganic compounds containing oxygen. |
| 15 Organic peroxides | Not applicable | - | - | - | Not organic compounds |
| 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 | - | - | - | 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 |
| 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: 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 the guideline, given the existence of toxicity data but absence of existing classification. |
| 7 Toxic to reproduction | Classification not possible | - | - | - | No 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 | Classification not possible | - | - | - | Insufficient 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 |

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|----|--|-----------------------------|---|---|---|-------------------|
| 11 | Hazardous to the aquatic environment (chronic) | Classification not possible | - | - | - | No data available |
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