GHS Classification

ID1000 CAS 1313-82-2 Physical Hazards

Disodium sulfide

Date Classified: Mar. 23, 2006 (Environmental Hazards: Feb. 10, 2006)

Physical Hazards Reference Manual: GHS Classification Manual (Feb. 10, 2006)

| Haza | ard 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 | - | 1 | - | Not aerosol products |
| 4 | Oxidizing gases | Not applicable | - | ı | - | Solid (GHS definition) |
| 5 | Gases under pressure | Not applicable | _ | 1 | _ | Solid (GHS definition) |
| 6 | Flammable liquids | Not applicable | - | ı | - | Solid (GHS definition) |
| 7 | Flammable solids | Not classified | - | - | - | UNRTDG Class: 4.2 |
| 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 | - | 1 | - | UNRTDG Class: 4.2 |
| 11 | Self-heating substances and mixtures | Category 1 | Flame | Danger | Self-heating; may catch fire | UNRTDG Class: 4.2, PGII |
| 12 | Substances and mixtures, which in contact with water, emit flammable gases | Not classified | - | - | - | UNRTDG Class: 4.2 |
| | Oxidizing liquids | Not applicable | - | - | - | Solid (GHS definition) |
| | Oxidizing solids | Not applicable | - | - | - | Containing no oxygen , chlorine and fluorine. |
| 15 | Organic peroxides | Not applicable | - | - | - | Inorganic substance |
| 16 | Corrosive to metals | Not classified | - | ı | - | UNRTDG Class: 4.2 |

Health Hazards

| Haz | ard class | Classification | symbol | signal word | hazard statement | Rational for the classification |
|-----|--|--|--|--|---|---|
| 1 | Acute toxicity (oral) | Category 3 | Skull and crossbones | Danger | | Rat LD50 value=208mg/kg (RTECS (Access on Aug 2005), IUCLID(2000), HSDB (Access on Jun 2005)) and 254mg/kg (IUCLID(2000)). Based on the data above, the lowest value was adopted for category |
| 1 | Acute toxicity (dermal) | Classification not possible | - | ı | | Since there are only data of rabbit dermal LD50 <340mg/kg (IUCLID (2000)) and data is insufficient, it cannot be classified. |
| 1 | Acute toxicity (inhalation: gas) | Not applicable | - | - | - | Solid (GHS definition) |
| 1 | Acute toxicity (inhalation: vapour) | Classification not possible | - | ı | - | No data available |
| 1 | Acute toxicity (inhalation: dust, mist) | Classification not possible | - | ı | - | No data available |
| 2 | Skin corrosion / irritation | Category 1A-1C | Corrosion | Danger | | It was set as Category 1A-1C from description that caustic is indicated to the skin of the humans (ICSC (J) (2002) and IUCLID (2000)), that it is a caustic substances (HSFS (1999)), and that skin caustic is admitted by the test using the rabbit (IUCLID (2000), HSDB (Access on Jun 2005)). |
| 3 | Serious eye damage / eye irritation | 3 , | Corrosion | Danger | | There is the description that causticity was indicated to the eye (ICSC (J) (2002)), on the description that it was a caustic substance (HSFS (1999)), and on the descriptions that the burn injury was caused by eye contact in occupational exposure examples (IUCLID (2000) and HSDB (Access on Jun 2005)). So we classified it as Category 1. |
| 4 | Respiratory/skin sensitization | respiratory sensitization: Classification not possible; Skin sensitization: Classification not | (Respiratory sensitization)-; (Skin | (Respiratory sensitization)-; (Skin sensitization)- | (Respiratory sensitization)-; (Skin sensitization)- | No data available |
| 5 | Germ cell mutagenicity | Not classified | - | - | - | There is a negative result by the micronucleus test (performing sector is unknown) which used the mouse, which is the in vivo mutagenicity test (IUCLID (2000)). So it carried out the outside of Category. |
| 6 | Carcinogenicity | Classification not possible | - | ı | - | Since it is not evaluated in the institution indicated in the technical indicator, it cannot be classified. |
| 7 | Toxic to reproduction | Classification not possible | _ | ı | _ | No data available |
| 8 | Specific target organs/systemic toxicity following single exposure | Category 2 (respiratory organs) | Health hazard | Danger | | There is a report of the substance showing corrosive properties to airways in ICSC (J) (2002). It also shows corrosive properties to skin and eyes, so it was judged that the target organ was respiratory organs to classify the substance as Category 2. |

| 9 | Specific target organs/systemic toxicity following repeated exposure | Classification not possible | - | - | - | Classification not possible due to lack of data |
|----|--|-----------------------------|---|---|---|---|
| 10 | Aspiration nazaru | Classification not possible | _ | ı | - | No data available |

Environmental Hazards

| Hazard class | | rd class | Classification | symbol | signal word | hazard statement | Rational for the classification | | |
|--------------|--|--|----------------|-------------|-------------|-------------------------------|---|--|--|
| | | Hazardous to the aquatic environment (acute) | Category 1 | Environment | | Very toxic to aquatic life | It was classified into Category 1 from 48-hour LC50=550microg/L of Crustacea (Water flea) (AQUIRE, 2003). | | |
| | | Hazardous to the aquatic environment (chronic) | Not classified | _ | - | _ | Toxicity factor is considered to be strong base as aqueous solution, but toxic effect is eased by the buffer action in the environmental water. | | |