GHS Classification

ID1240

CAS 485–31–4 Physical Hazards

Date Classified: Mar. 15, 2007 (Environmental Hazards: Mar. 31, 2006)

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

binapacryl

| Hazard class | | Classification | symbol | signal word | hazard statement | Rational for the classification |
|--------------|--|--------------------------------|--------|-------------|------------------|--|
| 1 | Explosives | Not classified | - | - | - | Not classified because of no appropriate data found on the explosibility, though the substance contains N−O bonds as chemical groups associated with explosive properties present and has its oxygen balance calculated at −163.8, higher than −200 of the criteria. |
| 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 | - | - | - | Although it is combustible (ICSC (J) 1997), there is no UNRTDG No., and test data is not found either. So it cannot be classified as data is insufficient,. |
| 8 | Self-reactive substances and mixtures | Not classified | - | - | - | Although the grouping relevant to explosive (N-O) was included, the grouping relevant to autoreactive was not included and the data in which autoreactive is indicated was not found, either. So it was considered outside of Category. |
| 9 | Pyrophoric liquids | Not applicable | - | - | - | Solid (GHS definition) |
| 10 | Pyrophoric solids | Not classified | - | - | - | Non-pyrophoric when in contact with air at a room temperature and used as agricultural chemicals. |
| 11 | Self-heating substances and mixtures | Classification not possible | - | - | - | Test methods applicable to solid (melting point <= 140degC) substances are not available. |
| 12 | Substances and mixtures, which in contact with water, emit flammable gases | Not applicable | - | - | - | The chemical structure of the substance does not contain metals or metaloids(B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At). |
| 13 | Oxidizing liquids | Not applicable | - | - | - | Solid (GHS definition) |
| 14 | Oxidizing solids | Classification not possible | - | - | - | No data available |
| 15 | Organic peroxides | Not applicable | - | - | - | Organic compounds containing no -0-0- structure |
| 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) | Category 3 | Skull and crossbones | Danger | Toxic if swallowed | Because the oral LD50 value in rats was 58mg/kg (RTECS (1996), HSDB (2003)), the substance was classified as Category 3. [Note] Also refer to the toxicity information for dinoseb (ID 0321, CAS number: 88-85-7) and dinoseb acetate (ID 1239, CAS number: 2813-95-8), which have the same basic skeleton. |
| 1 | Acute toxicity (dermal) | Category 3 | Skull and crossbones | Danger | Toxic in contact with skin | Rat dermal LD50 = 720mg/kg (RTECS (1996)). Rabbit dermal LD50 = 750mg/kg (RTECS (1996), HSDB (2003)). The higher toxic value (LD50 = 720mg/kg) was adopted , and it was set to as Category 3. |
| 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 | Classification not possible | - | - | - | No data available |
| 4 | Respiratory/skin sensitization | sensitization: Classification not possible; Skin sensitization: Classification not | (Respiratory sensitization)-; (Skin sensitization)- | (Respiratory sensitization)–; (Skin sensitization)– | (Respiratory sensitization)–; (Skin sensitization)– | No data available |
| 5 | Germ cell mutagenicity | Classification not possible | - | - | - | Insufficient data available |

| 1 | 6 Carcinogenicity | Classification not possible | - | - | - | No data available |
|---|---|--------------------------------|---|---|---|---|
| | 7 Toxic to reproduction | Classification not possible | - | - | - | Since data is insufficient. In addition, "this product is dimethyl acrylate ester of JINOZEBU, is metabolized and generates JINOZEBU. Toxicity is based on JINOZEBU (ICSC (J) (1997)", so refer to 2–(1–methylpropyl)–4,6–dinitrophenol (ID 0321, CAS number: 88–85–7). |
| - | 8 Specific target organs/systemic toxicity following single exposure | Classification not possible | - | - | - | Insufficient data available. |
| | 9 Specific target organs/systemic toxicity following repeated exposure | Classification not possible | - | - | - | Insufficient data available |
| 1 | 0 Aspiration hazard | Classification not possible | - | - | - | No data available |

Environmental Hazards

| Hazard class | | rd class | Classification | symbol | signal word | hazard statement | Rational for the classification |
|--------------|----|---|----------------|-------------|-------------|--|--|
| ſ | 11 | Hazardous to the aquatic environment (acute) | Category 1 | Environment | Warning | Very toxic to aquatic life | It was classified into Category 1 from 96-hour LC50=15microg/L of fishes (American catfish), and others (HSDB, 2004). |
| | 11 | Hazardous to the aquatic environment (chronic) | Category 1 | Environment | Warning | Very toxic to aquatic life with long lasting effects | Classified into Category 1, since acute toxicity is Category 1, supposed not rapidly degrading (BIOWIN), and bioaccumulative (log Kow=4.49 (PHYSPROP Database, 2005)). |