

GHS Classification

ID982

2-methyl-1-nitroanthraquinone

CAS 129-15-7

Date Classified: Jun. 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 | Classification not possible | - | - | - | No data available |
| 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 | Classification not possible | - | - | - | No data available |
| 9 Pyrophoric liquids | Not applicable | - | - | - | Solid (GHS definition) |
| 10 Pyrophoric solids | Classification not possible | - | - | - | No data available |
| 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 applicable | - | - | - | The chemical structure of the substance does not contain metals or metalloids(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 | - | - | - | Containing no -O-O- structure |
| 16 Corrosive to metals | Classification not possible | - | - | - | Liquid at a test temperature, 55degC. 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 | - | - | - | There was description that lethal dosage for rat was >500mg/kg, but there was no other data. Therefore, category was not able to be specified. |
| 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 | Classification not possible | - | - | - | No data available |
| 4 Respiratory/skin sensitization | Respiratory sensitization: Classification not possible; Skin sensitization: Classification not possible | - | - | - | No data available |
| 5 Germ cell mutagenicity | Classification not possible | - | - | - | Although there is no data of a vivo study and there is the positive result (IARC 27, 1982, NTP DB, 2006) by the in vitro mutagenicity test (the reverse mutation test using bacteria, and the chromosome aberration test using a mammals cultured cell) of several indices, any examination is judged not to be a strongly positive result. So it cannot classify. |

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|----|--|-----------------------------|---------------|---------|--|--|
| 6 | Carcinogenicity | Category 2 | Health hazard | Warning | Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard) | Since it was classified into group 2B (IARC Suppl.7, 1987) in IARC and 2B in Japan Assoc. of Industrial Health (industrial hygiene academic society recommendation, 2005), it was considered as Category 2. |
| 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 | Category 2 (stomach) | Health hazard | Warning | may cause damage to organs (stomach) through prolonged or repeated exposure | Based on description that the gastric pathological change was observed with the given dose of the guidance value range for Category 2 in the long-term feeding oral administration examination on rats (IARC 27 (1982) and NTP TR 29 (1978)), it was classified into Category 2 (stomach). |
| 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. |