

GHS Classification

ID717

Shale oils

CAS 68308-34-9

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 classified | - | - | - | UNRTDG No. 288(SHALE OIL), Class: 3, PG II or III |
| 2 Flammable gases | Not applicable | - | - | - | Liquid (room temperature) |
| 3 Flammable aerosols | Not applicable | - | - | - | Not aerosol products |
| 4 Oxidizing gases | Not applicable | - | - | - | Liquid (room temperature) |
| 5 Gases under pressure | Not applicable | - | - | - | Liquid (room temperature) |
| 6 Flammable liquids | Category 2-3 | Flame | Danger | Highly flammable liquid and vapour | UNRTDG No. 1288(SHALE OIL), Class: 3; PG II or III |
| 7 Flammable solids | Not applicable | - | - | - | Liquid (room temperature) |
| 8 Self-reactive substances and mixtures | Not classified | - | - | - | UNRTDG No. 288 (SHALE OIL), Class: 3; PG II or III |
| 9 Pyrophoric liquids | Not classified | - | - | - | UNRTDG No. 288(SHALE OIL), Class: 3; PG II or III |
| 10 Pyrophoric solids | Not applicable | - | - | - | Liquid (room temperature) |
| 11 Self-heating substances and mixtures | Classification not possible | - | - | - | Test methods applicable to liquid substances are not available |
| 12 Substances and mixtures, which in contact with water, emit flammable gases | Not classified | - | - | - | UNRTDG No. 288(SHALE OIL), Class: 3; PG II or III |
| 13 Oxidizing liquids | Not classified | - | - | - | UNRTDG Number:288(SHALE OIL), Class: 3; PG II or III |
| 14 Oxidizing solids | Not applicable | - | - | - | Liquid (room temperature) |
| 15 Organic peroxides | Not classified | - | - | - | UNRTDG Number:288(SHALE OIL), Class: 3; PG II or III |
| 16 Corrosive to metals | Not classified | - | - | - | UNRTDG No. 1288(SHALE OIL), Class: 3, PG II or III |

Health Hazards

| Hazard class | Classification | symbol | signal word | hazard statement | Rational for the classification |
|---|---|---|---|---|--|
| 1 Acute toxicity (oral) | Not classified | - | - | - | SPECIES: Mouse ENDPOINT: LD50 VALUE: 11.3 g/kg REFERENCE SOURCE: IARC 35(1985) |
| 1 Acute toxicity (dermal) | Not classified | - | - | - | It is based on mortality not being seen by administration of 1936 = approx. 2000mg/kg or more to rat (IARC 35 (1985)). |
| 1 Acute toxicity (inhalation: gas) | Not applicable | - | - | - | Liquid (room temperature) |
| 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 | - | - | - | Insufficient 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)-; (Skin sensitization)- | (Respiratory sensitization)-; (Skin sensitization)- | (Respiratory sensitization)-; (Skin sensitization)- | No data available |
| 5 Germ cell mutagenicity | Category 2 | Health hazard | Warning | Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard) | It is based on the positive results of the mouse somatic cells in vivo mutagenicity test (chromosomal aberration test) (IARC 35 (1985)). |

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|----|--|-----------------------------|---------------|--------|---|---|
| 6 | Carcinogenicity | Category 1A | Health hazard | Danger | May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard) | It is based on IARC classifications 1 and the Japanese industrial hygiene academic Society classifications 1. |
| 7 | Toxic to reproduction | Classification not possible | - | - | - | Insufficient data available |
| 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 |
| 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. |