

GHS Classification

ID135

dichlorofluoromethane

CAS 75-43-4

Date Classified: Jul. 24, 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 | - | - | - | Gas (GHS definition) |
| 2 Flammable gases | Not classified | - | - | - | UNRTDG Class: 2.1. Non-combustible or hardly flammable gas (Hommel, 1991) and non-combustible (ICSC(J), 19XX) |
| 3 Flammable aerosols | Not applicable | - | - | - | Not aerosol products |
| 4 Oxidizing gases | Not classified | - | - | - | UNRTDG Class: 2.2 |
| 5 Gases under pressure | Liquefied gas | Gas cylinder | Warning | Contains gas under pressure; may explode if heated | Liquefied gas because of the critical temp: >65degC. |
| 6 Flammable liquids | Not applicable | - | - | - | Gas (GHS definition) |
| 7 Flammable solids | Not applicable | - | - | - | Gas (GHS definition) |
| 8 Self-reactive substances and mixtures | Not applicable | - | - | - | Gas (GHS definition) |
| 9 Pyrophoric liquids | Not applicable | - | - | - | Gas (GHS definition) |
| 10 Pyrophoric solids | Not applicable | - | - | - | Gas (GHS definition) |
| 11 Self-heating substances and mixtures | Not applicable | - | - | - | Gas (GHS definition) |
| 12 Substances and mixtures, which in contact with water, emit flammable gases | Not applicable | - | - | - | Gas (GHS definition) |
| 13 Oxidizing liquids | Not applicable | - | - | - | Solid (GHS definition) |
| 14 Oxidizing solids | Not applicable | - | - | - | Liquid (GHS definition) |
| 15 Organic peroxides | Not applicable | - | - | - | Gas (GHS definition) |
| 16 Corrosive to metals | Classification not possible | - | - | - | Test methods are not 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 classified | - | - | - | Based on rat inhalation LC50 = 49900ppm (4hr) (ACGIH (2001)), it was considered as the outside of Category. |
| 1 Acute toxicity (inhalation: dust, mist) | Not applicable | - | - | - | Gas (GHS definition) |
| 1 Acute toxicity (inhalation: dust, mist) | Not applicable | - | - | - | Gas (GHS definition) |
| 2 Skin corrosion / irritation | Category 3 | - | Warning | Causes mild skin irritation | Based on a report that mild irritation arises with 25% or more of concentration to intact skin in the examination on guinea pigs report (EHC 126 (1991)), it was classified as Category 3. [Notes] There is also a report that it was a frostbite caused by coolant effect (Hommel (1991)). |
| 3 Serious eye damage / eye irritation | Category 2B | - | Warning | Causes eye irritation | Since reversible Milder irritant effects (EHC 126 (1991)) were reported in solution 15% by the examination of the rabbit, it was set as Category 2B. |
| 4 Respiratory/skin sensitization | respiratory sensitization: Classification not possible; Skin sensitization: Not | (Respiratory sensitization)-; (Skin sensitization)- | (Respiratory sensitization)-; (Skin sensitization)- | (Respiratory sensitization)-; (Skin sensitization)- | Respiratory sensitization: No data Skin sensitization : Classified as out of category based on the report that finds no sensitization in the experiment by the Maximization method using guinea pigs (CERI Hazard Data (2000)), and the description that guinea pig tests shows no sensitization (EHC 126 (1991), ECETOC JACC16 (1990), PATTY(5th, 2001) vol.5). |
| 5 Germ cell mutagenicity | Classification not possible | - | - | - | It was decided that the substance could not be classified because there are no data from in vivo tests, and there are no positive results from the in vitro mutagenicity tests (EHC 126 (1991), DFGOT vol.5 (1993)). |
| 6 Carcinogenicity | Classification not possible | - | - | - | No data available |
| 7 Toxic to reproduction | Category 2 | Health hazard | Warning | Suspected of damaging fertility or the unborn child | It is reported that loss of implantation in the amount of administration causing the reduced weight of parent animals in the test using rat (EHC 126 (1991), ACGIH (2001)). So it was considered as in the Category 2. . |

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|----|--|-------------------------------|------------------|---------|---|--|
| 8 | Specific target organs/systemic toxicity following single exposure | Category 3 (narcotic effects) | Exclamation mark | Warning | May cause respiratory irritation or may cause drowsiness and dizziness (narcotic effects) | Based on the report of anesthetic actions in rat and guinea pig, it was classified into Category 3 (anesthetic actions). |
| 9 | Specific target organs/systemic toxicity following repeated exposure | Category 1 (liver) | Health hazard | Danger | Causes damage to organs (liver) through prolonged or repeated | Since Cirrhosis is observed histopathologically in rat at 50 ppm (EHC 126 (1991)) and despite out of guidance value, the necrosis of liver was also observed at 10000 ppm (EHC 126 (1991), ACGIH (2001)), it was classified into Category 1 (liver). |
| 10 | Aspiration hazard | Not applicable | - | - | - | Gas (GHS definition) |

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. |