GHS Classification

ID131 Methane, dichlorodifluoro-

CAS 75-71-8 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: 2.2
3	Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4	Oxidizing gases	Not applicable	-	-	-	Not classified in UNRTDG Subsidiary risks Class: 5.1
5	Gases under pressure	Low pressure liquefied gas	Gas cylinder	Warning	Contains gas under pressure; may explode if heated	Low pressure 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	-	-	-	Gas (GHS definition)
14	Oxidizing solids	Not applicable	-	-	-	Gas (GHS definition)
15	Organic peroxides	Not applicable	-	-	-	Gas (GHS definition)
16	Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to gas 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	-	-	-	Although there is information that 1000mg/kg or more is lethal in rats (EHC113(1990), CERI Hazard Data (1998)), it cannot be classified since it cannot know whether it exceeds 2000mg/kg of Category 4 or not.
1	Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: gas)	Not classified	-	-	-	The value of LC50: >800000ppm/0.5h (4 hour reduced values: >282842ppm) (CERI Hazard Data (1998)) in rat inhalation exposure exceeds. The value exceeding 12500ppm (gas 5000ppm(4) *2.5), it was considered as the outside of Category.
1	Acute toxicity (inhalation:	Not applicable	-	-	-	Gas (GHS definition)
1	Acute toxicity (inhalation: dust, mist)	Not applicable	-	-	-	Gas (GHS definition)
2	Skin corrosion / irritation	Not classified	-	-	-	Based on the information that it "has a slight irritation" (CERI Hazard Data (1998), EHC 113 (1990)) and "was unirritating" (DFGOT 5th (1993)), it was classified as out of Category.
3	Serious eye damage / eye irritation	Not classified	-	-	-	Since there are information that it has recovered at the next day although there was minimal deficit with a rabbit (CERI Hazard Data (1998)), and that stimulation was not seen with a rabbit (ACGIH (2001)), it was carried out the outside of Category.
4	Respiratory/skin sensitization	Respiratory sensitization: Not classified; Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	Respiratory sensitization was classified as out of category because animal testing shows no abnormalities (DFGOT 5th (1993)). Skin sensitization is uncategorizable because of insufficient data although it is suggested in the effect to humans (CERI Hazard Data (1998)).
5	Germ cell mutagenicity	Not classified	-	-	-	The substance was regarded as outside the categories because the results of the in vivo dominant lethal tests in rats are negative (EHC 113 (1990), CERI Hazard Data (1998)).
6	Carcinogenicity	Not classified	-	-	-	It is A4 in ACGIH which is a classification organization, and there were reports that a carcinogenic evidence cannot be found in animal experiments (EHC 113 (1990), DFGOT, 5th (1993)) And also that increase of and cancer incidences was not observed (CERI Hazard Data (1998)). So it was set as the outside of Category.
7	Toxic to reproduction	Not classified	-	-	-	According to the test result that "there was no abnormality of pregnancy rate, birth rate, and survival rate of new born in three generation test"of rat, and according to the test result that "there were no ferotoxity and teratogenicity", "there were no ferotoxity, teratogenicity, and there was no toxicity in new born" of rat and rabbit (CERI Hazard Data (1990), EHC 113 (1990), DFGOT 5th (1993)), and they were considered as on the outside of Categry

8	Specific target organs/systemic toxicity following single exposure	Classification not possible	–	–	–	Although conrtraction, tremor, absent reflex, and loss of the corneal reflex were observed in the rat, it recovered after the end of exposure. Every value was beyond the guidance value by far. Although effects on whole body are indicated at high concentrations in humans, they are mixed in some literatures (CERI Hazard Data (1998), DFGOT 5th, (1993), PATTY (5th, 2005), EHS113 (1990)). And a specific effect cannot be mentioned. Therefore, it cannot be classified.
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (nervous system)	Health hazard	Danger	Causes damage to organs (nervous system) through prolonged or repeated exposure	It was classified into Category 1 since nervous system damage was observed to the human by occupational exposure (CERI Hazard Data (1998)).
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	–	–	–	Insufficient data available.
11	Hazardous to the aquatic environment (chronic)	Classification not possible	–	–	–	Classification not possible due to lack of data