GHS Classification

ID939 CAS 684–16–2 Physical Hazards

Date Classified: Nov. 1, 2005 (Environmental Hazards: Mar. 31, 2006)

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

hexafluoroacetone

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Not applicable	-	-	-	Gas (GHS definition)
2 Flammable gases	Not classified	-	-	-	Non-combustible (ICSC(J), 2000; etc.)
	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not classified	-	-	-	UNRTDG Class: 2.3, Subsidiary risks Class: 8
5 Gases under pressure				Contains gas under	
	Liquefied gas	Gas cylinder	Warning	pressure; may explode if heated	Critical temp: >−50degC (Partially liquid at temperatures above −50degC)
6 Flammable liquids	Not applicable	-	-	-	Gas (GHS definition)
7 Flammable solids	Not applicable	-	-	-	Gas (GHS definition)
mixtures	Not applicable	-	-	-	Gas (GHS definition)
9 Pyrophoric liquids	Not applicable	-	-	-	Gas (GHS definition)
	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)
	Classification not possible	-	-	-	UNRTDG Subsidiary risks Class: 8. Test methods applicable to gaseous substances are not available

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Not applicable	-	-	-	Gas (GHS definition)
1 Acute toxicity (dermal)	Not applicable	-	-	-	Gas (GHS definition)
1 Acute toxicity (inhalation: gas)	Category 2	crossbones	Danger	Falat if inhaled	It was considered as Category 2 based on the description that the rat lethal concentration in 4-hour exposure is 300ppm (ACGIH 7th, 2001).
1 Acute toxicity (inhalation:	Not applicable	-	-	-	Gas (GHS definition)
 Acute toxicity (inhalation: dust, mist) 	Not applicable	-	-	-	Gas (GHS definition)
2 Skin corrosion / irritation	Category 2	Exclamation mark	Warning		It was set as Category 2 from description that the skin was stimulated (ICSC (J), (2000), HSDB (2005), HSFS (1999), SITTIG (4th, 2002)).
3 Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning		We classified it as Category 2A-2B based on the descriptions that it stimulated the eyes (ICSC (J), (2000), HSDB (2005), HSFS (1999), and SITTIG (4th, 2002)).
4 Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	-	-	-	No data available
5 Germ cell mutagenicity	Classification not possible	_	-	-	No data available
6 Carcinogenicity	Classification not possible	-	-	-	No data available

7	Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of	Therefore, it was judged that there was not enough evidence to be classified into 1B, and it was classified into Category 2.
8		kidnove liver thymus	Health hazard	Danger; Warning	cause damage to organs (respiratory	It was judged as Category 1 (spermary, kidney, liver, thymus) because of a description that damage to livers, kidneys, spermary, and thymi was confirmed through an inhalation exposure test using rats at concentration within the guidance value of Category 1 (ACGIH (7th, 2001)). Moreover, it was judged as Category 2 (respiratory tracts) because of descriptions that airways can be stimulated and pulmonary edemas may be caused (ICSC(J) (2000), HSFS (1999), and SITTIG (4th, 2002)).
-		Category 1 (testes, kidneys, blood)	Health hazard		kidneys, blood) through prolonged	Based on the description that the influence on the teste, the renal function, and blood was observed with the concentration of the guidance value range of Category 1 in a 90-days inhalation exposure test using the rat and dog (ACGIH (7th, 2001)), it was classified into Category 1 (teste, kidney, blood).
10		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.