

GHS Classification

ID609

sodium fluoroacetate

CAS 62-74-8

Date Classified: Oct. 1, 2005 (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	-	-	-	There are no chemical groups associated with explosive properties present in the molecules.
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	Not classified	-	-	-	Non-combustible (ICSC (J), 1997; etc.) UNRTDG Class:6.1
8 Self-reactive substances and mixtures	Not applicable	-	-	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9 Pyrophoric liquids	Not applicable	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	-	-	Non-combustible (ICSC (J), 1997; etc.) UNRTDG Class:6.1
11 Self-heating substances and mixtures	Not classified	-	-	-	Non-combustible (ICSC(J) (1997); etc.) UNRTDG Class: 6.1
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	UNRTDG Class: 6.1
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Not classified	-	-	-	UNRTDG Class: 6.1
15 Organic peroxides	Not applicable	-	-	-	Containing no -O-O- structure
16 Corrosive to metals	Not classified	-	-	-	UNRTDG Class: 6.1

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Category 1	Skull and crossbones	Danger	Fatal if swallowed	Rat LD50 value is 0.1mg/kg (RTECS, 2005), and it was set as Category 1. Moreover, LD50 value in humans is predicted to be 2 to 5 mg/kg by ACGIH (7th, 2001).
1 Acute toxicity (dermal)	Category 1	Skull and crossbones	Danger	Fatal in contact with skin	It was set as Category 1 from rat LD50 value: 48mg/kg (RTECS, 2005;HSDB, 2005).
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	Not classified	-	-	-	Slight transient edema was observed in one case (HSDB (2005)). But it had concluded that there was no irritation. So it was classified as out of Category.
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	It was indicated that mild irritation and conjunctival edemas were acknowledged (HSDB (2005)). But the extent was unknown. So it could not be classified due to lack of data.
4 Respiratory/skin sensitization	respiratory sensitization: Classification not possible; Skin sensitization: Classification not possible	-	-	-	No data available
5 Germ cell mutagenicity	Classification not possible	-	-	-	Classification not possible due to lack of data
6 Carcinogenicity	Classification not possible	-	-	-	No data available
7 Toxic to reproduction	Classification not possible	-	-	-	Classification not possible due to lack of data
8 Specific target organs/systemic toxicity following single exposure	Category 1 (heart, central nervous system)	Health hazard	Danger	Cause damage to organs (heart, central nervous system)	Since an effect on the cardiac and central nervous system is indicated as a view of poisoning case (ACGIH (7th, 2001)), it was set as Category 1 (heart, central nervous systems).

9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (heart, testes, nervous system, kidneys, liver)	Health hazard	Danger	Causes damage to organs (heart, testes, nervous system, kidneys, liver) through prolonged or repeated exposure	The effects on heart, testes, and central nervous system are admitted with the given dose of 0.5mg/kg/day by the examination for rats of EPA quoted by IRIS (1993). And in the example of poisoning in the people of HSDB (2005), since the effects on kidney, liver, and nervous system were reported, it was classified to as Category 1 (heart, teste, nervous system, kidney, and liver).
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)	Category 3	-	-	Harmful to aquatic life	It was classified into Category 3 from 96-hour LC50=54mg/L of fishes (Rainbow trout) (HSDB, 2004).
11 Hazardous to the aquatic environment (chronic)	Category 3	-	-	Harmful to aquatic life with long lasting effects	Classified into Category 3, since acute toxicity was Category 3 and rapid degradability is unknown, though supposed less bio-accumulative (log Kow=-3.78 (PHYSPROP Database, 2005)).