GHS Classification

ID1097 CAS 7789-21-1 Physical Hazards

Fluorosulfonic acid

Date Classified: Apr. 20, 2006 (Environmental Hazards: Mar. 31, 2006)

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

Haz	ard 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	-	-	-	Liquid (GHS definition)
	Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4	Oxidizing gases	Not applicable	-	-	-	Liquid (GHS definition)
5	Gases under pressure	Not applicable	-	-	-	Liquid (GHS definition)
6	Flammable liquids	Not classified	-	-	-	Not combustible. (ICSC (2005))
7	Flammable solids	Not applicable	-	-	-	Liquid (GHS definition)
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 classified	-	-	-	Non-combustible (ICSC, 2005)
10	Pyrophoric solids	Not applicable	-	-	-	Liquid (GHS definition)
11	Self-heating substances and mixtures	Not classified	_	-	_	Not combustible (ICSC (2005))
12	Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Although it was a water reactive substance, hydrogen fluoride gas and sulfuric acid mist that are nonflammable were produced. Therefore, it carried out the outside of category.
13	Oxidizing liquids	Classification not possible	-	-	_	No data available
14	Oxidizing solids	Not applicable	-	-	_	Liquid (GHS definition)
15	Organic peroxides	Not applicable	-	-	-	Inorganic compound
16	Corrosive to metals	Classification not possible	-	-		UNRTDG is classified into 8 according to the UNRTDG No. (1777). Although ICSC (2005) has the description "it corrodes many metals," there is no test data and it cannot be classified.

Health Hazards

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	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification			
	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 applicable	_	-	-	Liquid (GHS definition)			
1	Acute toxicity (inhalation: vapour)	Classification not possible	_	ı	-	No data available			
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	_	ı	-	No data available			
	Skin corrosion / irritation	Category 1A-1C	Corrosion	Danger	burns and eye	It was set as category 1A-1C since European risk phrases of this product was "C;R35", in addition to the description that it is caustic to person's skin is in Priority 2, (ICSC (2005)). [view] It is more desirable to be set as 1A from a viewpoint of safety, when further categorizing needs to be performed.			
3	Serious eye damage / eye irritation		Corrosion	Danger		In Priority 2, there is the description that causticty is indicated to the human eye (ICSC (2005)). So it was was classified into Category 1.			
4	Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	sensitization)-; (Skin	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	No data available			
5	Germ cell mutagenicity	Classification not possible	-	-	-	No data available			
	Carcinogenicity	Classification not possible	-	-	-	No data available			
7	Toxic to reproduction	Classification not possible	_	-	-	No data available			

	Specific target organs/systemic toxicity following single exposure	Category 2 (respiratory)	Health hazard	Warning	May cause damage to organs (respiratory)	The substance was classified as Category 2 (respiratory system) because of the reports in Priority 2 that it causes sore throats, shortness of breath, serious swelling of the throat, corrosion in the airways, pulmonary edema, etc, (ICSC(2005)).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	No data available
10	Aspiration hazard	Classification not possible	=	-	=	No data available

Environmental Hazards

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Н	azard 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		