GHS Classification

ID1105

zinc fluoride

CAS 7783-49-5

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

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

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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 (HSDB, 2003)
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 (HSDB, 2003)
11 Self-heating substances and mixtures	Not classified	_	-	_	Not combustible. (HSDB (2003))
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water (the water solubility is obtained)
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Classification not possible	_	-	-	No data available
15 Organic peroxides	Not applicable	-	-	-	Inorganic compound
16 Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available.

Health Hazards

Haz	ard 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	-	ı	i	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	ı	Solid (GHS definition)
	Acute toxicity (inhalation: vapour)	Classification not possible	-	ı	i	No data available
	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	ı	i	No data available
2	Skin corrosion / irritation	Classification not possible	-	ı	i	There is description that skin irritation is present in humans (HSFS (2000)). But there is no data which is supported, and since data is insufficient, it cannot be classified.
3	Serious eye damage / eye irritation	Category 2B	-			It irritates to the eye as fluoride (ACGIH-TLV (2004)), and also there is description which indicates eye irritation to humans (HSFS (2000)). So it was classified into Category 2B.
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin sensitization)-		(Respiratory sensitization)-; (Skin sensitization)-	No data available
5	Germ cell mutagenicity	Classification not possible	-	-	-	No data available
	Carcinogenicity	Not classified	-	-		It is classified into A4 as fluoride in ACGIH-TLV (2004), and it is classified into I as zinc compounds in IRIS (2005). It was out of the Category.
7	Toxic to reproduction	Classification not possible	-	ı	-	No data available

8	Specific target organs/systemic toxicity following single exposure		Exclamation mark	Warning	drowsiness and dizziness (respiratory tract	The substance was classified as Category 3 (airway irritant) because there is a report in ACGIH-TLV (2004), a Priority 1 document, that exposure to the fluoride causes irritation to the airways, and because there is also report in HSFS (2000), a Priority 2 document, that it displays airway irritant properties in humans.
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (bone)	Health hazard	Danger	through prolonged	Since there was description that it has influence (fluorosis) on a bone by exposure of a fluoride (ACGIH-TLV (2004) of Priority 1 document), and there was the same knowledge of a fluoride to humans also (HSDB (2003) of Priority 2 document), it was classified into Category 1 (bone).
10	Aspiration hazard	Classification not possible	-	=	=	No data available

Environmental Hazards

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Ha	azard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
1	anvironment (acuta)	Classification not possible	-	-	-	No data available		
1		Classification not possible	-	ı	-	No data available.		