GHS Classification

ID1191

Potassium tetrafluoroborate

CAS 14075-53-7 Physical Hazards

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

cal 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	-	I	-	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 (BGIA, GESTIS-database on hazardous substancess, Accessed in 2006)
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	-	I	-	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	I	-	Non-combustible (BGIA, GESTIS-database on hazardous substancess, Accessed in 2006)
11 Self-heating substances and mixtures	Not classified	-	-	-	Non-combustible (BGIA GESTIS-database on hazardous substancess, accessed in 2006)
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. UNRTDG 8 (Generic or N.O.S. entry)

Health Hazards

Hazard 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	-	-	-	No data available
 Acute toxicity (inhalation: gas) 	Not applicable	-	-	-	Solid (GHS definition)
 Acute toxicity (inhalation: vapour) 	Classification not possible	-	-	-	No data available
 Acute toxicity (inhalation: dust, mist) 	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Classification not possible	-	-	-	No data available
3 Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning	Causes serious eye irritation	Although there is the description that it irritates to the eye as fluoride in ACGIH-TLV (2005), the examination data of the animal used as the index of subdivision was not found. So it was classified into Category 2A-2B. [Indication] 2A is recommended based on the safety, when the Category needs to subdivide.
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
6 Carcinogenicity	Classification not possible	_	-	_	Although fluoride was classified into A4 (corresponding to outer Category) in ACGIH-TLV (2005), due to insufficient data, it cannot be classified.
7 Toxic to reproduction	Classification not possible	-	-	-	Although fluoride is classified into C (there is no developmental toxicologies) according to MAK/BAT (2005), since data is insufficient, it cannot be classified.

8	Specific target organs/systemic toxicity following single exposure	Category 3 (respiratory tract irritation)	Exclamation mark	Warning	drowsiness and dizziness (respiratory tract	In ACGIH-TLV (2005) of Priority 1 document, it is supposed that it has respiratory irritant as fluoride. It was considered as Category 3 (respiratory irritant).
g	Specific target organs/systemic toxicity following repeated exposure	Category 1 (bone)	Health hazard	Danger		Since there is a description of the influence (fluorosis) on a bone as fluoride (ACGIH-TLV (2005) of Priority 1 document), it was classified into Category 1 (bone).
10	Aspiration hazard	Classification not possible	-	-	-	No data available

Environmental Hazards

Ha	zard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	1 Hazardous to the aquatic environment (acute)	Not classified	-	-		It carried out the outside of Category from 96-hour EC50=95mg/L (potassium tetrafluoroborate concentration equivalent: 157 mg/L) of algae (Scenedesmus) (IUCLID, 2000).
1	1 Hazardous to the aquatic environment (chronic)	Not classified	-	-		Since not water-insoluble (aqueous solubility =5500mg/L(CRC Handbook of Chemistry and Physics 84th)) and acute toxicity is low.