GHS Classification

ID1063

CAS 10102-18-8 Physical Hazards

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

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

sodium selenite

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	Classification not possible	_	-	-	Although ICSC (J) (1998) has the description "it is a flammable under specific conditions", the conditions or examination data are not available. And data is insufficient, it cannot be classified.
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	-	-	-	Even if it contacts the normal temperature air, it does not ignite spontaneously. (Merck (13th, 2001) has the description "It is stabilized in the air".)
11 Self-heating substances and mixtures	Classification not possible	-	-	-	No data available
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

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Category 2	Skull and crossbones	Danger	Fatal if swallowed	SPECIES: Rat ENDPOINT: LD50 VALUE: 7mg/kg REFERENCE SOURCE: RTECS(2004)
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	Category 2	Exclamation mark	Warning	Causes skin irritation	It was thought that there was stronger skin stimulativeness by the description in the humans (redness, a burn, discoloration, etc.) (ICSC (J) (1998), SITTIG (4th, 2002), and HSFS (2002)), and it was set as Category 2.
3 Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning	Causes serious eye irritation	It is considered that there is strong stimulativeness to the eye in human from the description (redness, pain, damage, etc.) (ACGIH-TLV (2004), ICSC (J), (1998), SITTIG (4th, 2002), and HSFS (2002)), and it was classified into Category 2A.
4 Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	(Respiratory sensitization)−; (Skin sensitization)−	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	Respiratory sensitization: no data available Skin sensitization: suppose that there is possibility of skin sensitization in the class of EU-Annex I (Access on May 2005). Although there is a case report which suggests human skin sensitization also in HSDB (2002), and there is the description of the human contact dermatitis in ICSC(J)(1998), since data is insufficient, it cannot classify.

5	Germ cell mutagenicity	Category 2	Health hazard	Warning	or exposure if it is	Although there was positive reports (PATTY, 5th, 2001) of a somatic cell in vivo mutagenicity test (mouse bone marrow chromosomal aberration test), there was no report of a productive cell in vivo heredity toxicity examination. So it was set to Category 2.
6	Carcinogenicity	Not classified	-	I	-	As selenium compounds, it is categorized into D in IRIS (1993) and is categorized into Group 3 in IARC9 (1975). It was out of the Category.
7	Toxic to reproduction	Category 2	Health hazard		Suspected of damaging fertility or the undorn child	Although there is no descriptions on general toxicity of parent animals in RTECS (2004) of Priority 2 document, there is description of influence of the postimplantation loss of embryo, the number of child and degree of survival of a child, and it was considered as Category 2.
	Specific target organs/systemic toxicity following single exposure			Warning	neart, nervous svstem)	The substance was classified as Category 2 (respiratory system, liver, heart, nervous system) based on the reports concerning humans in ICSC (J) (1998) and SITTIG (4th, 2002), which are Priority 2 documents.
-	exposure	Category 2 (central nervous system, blood, kidneys, liver)	Health hazard	Warning	hervous system, blood, kidneys, liver) through prolonged	Since there is description of effect on the central nervous systems, blood, the kidney, and liver in human in ICSC(J)(1998), SITTIG (4th, 2002), HSFS (2002) of Priority 2 document, and description of effect on the blood, the kidney, and liver in rats in HSDB (2002) and RTECS (2004) of Priority 2, it was classified into Category 2 (a central nervous systems, blood, kidney, liver).
10		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)	Category 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 96-hour LC50=0.22 mg/L of fishes (Fathead minnows) (CERI Hazard Data, 2002) .
1	1 Hazardous to the aquatic environment (chronic)	Category 1	Environment		Very toxic to aquatic life with long lasting effects	Classified into Category 1, since acute toxicity was Category 1, and it is a metallic compound, behavior in water is unknown., though less bioaccumulative (BCF=12 (existing chemical safety inspections data)).