

## GHS Classification

**ID1268**

**triammonium trioxalatoferrate**

**CAS 14221-47-7**

Date Classified: Nov. 20, 2006 (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	-	-	-	The trihydrate of this product is stated to be "nonflammable" in CHRIS-Chemical Hazard Response Information System (U. S.DOT/U.S.Coast Guard, 1999); therefore, it was classified as out of Category.
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	-	-	-	There was a description referring to trihydrate of this substance as "nonflammable" in CHRIS-Chemical Hazard Response Information System (U. S.DOT/U.S.Coast Guard, 1999), and it was defined as "out of Category".
11 Self-heating substances and mixtures	Not classified	-	-	-	CHRIS-Chemical Hazard Response Information System (U. S.DOT/U.S.Coast Guard, 1999) has the statement that the trihydrate of the this product "nonflammable", and it carried out outside of category.
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water (readily soluble)
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Classification not possible	-	-	-	No data available
15 Organic peroxides	Not applicable	-	-	-	Organic compounds containing no -O-O- structure
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)	Classification not possible	-	-	-	No data available
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
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	Category 2	Exclamation mark	Warning	Causes skin irritation	By the skin standard Draize's dexamination (HSDB, 2005; RTECS, 1997) of a rabbit, since the reaction of the skin was Moderate (score 3.06), it was set as Category 2.
3 Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning	Causes serious eye irritation	Since the Standard Draize Test (HSDB, 2005; RTECS, 1997) of the rabbit eye showed severe irritation (very irritating or moderate), it was set as Category 2A.
4 Respiratory/skin sensitization	respiratory sensitization: Classification not possible; Skin sensitization: Classification not possible	(Respiratory sensitization)-; (Skin sensitization)-	(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	-	-	-	No data available
7 Toxic to reproduction	Classification not possible	-	-	-	No data available

8	Specific target organs/systemic toxicity following single exposure	Category 3 (respiratory tract irritation)	Exclamation mark	Warning	may cause respiratory irritation or may cause drowsiness and dizziness (respiratory tract irritation)	In ACGIH-TLV (2006), it is supposed that water-soluble ferrate indicates respiratory irritant. Since this product has respiratory irritant also in HSFS (2001), SITIG (4th, 2002), it was considered as Category 3 (respiratory irritant). In addition, also refer to oxalic acid (ID No.0595, CAS No.144-62-7).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	No data. In addition, also refer to oxalic acid (ID No.0595, CAS No.144-62-7).
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)	Classification not possible	-	-	-	No data available
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	No data available.