

GHS Classification

ID1305

CAS 10025-78-2

Physical Hazards

Silane, trichloro-

Date Classified: Mar. 15, 2007 (Environmental Hazards: Mar. 31, 2006)

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	-	-	-	Liquid (GHS definition)
3 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	Category 1	Flame	Danger	Extremely flammable liquid and vapour	UNRTDG No. 1295, Class: 4.3(3, 8); PG II. Flash point:< 23degC.
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	-	-	-	The ignition points is 100 degC or more (NFPA (13th, 2002) and others), and even if it contacts the normal temperature air, it does not ignite spontaneously.
10 Pyrophoric solids	Not applicable	-	-	-	Liquid (GHS definition)
11 Self-heating substances and mixtures	Not classified	-	-	-	UNRTDG is classified into 4.3 (3, 8) and I according to the U.N. number (1295) peculiar to this substance. Since 4.2 which indicates a self-febrility chemistry article was not attached, it carried out the outside of Category.
12 Substances and mixtures, which in contact with water, emit flammable gases	Category 1	Flame	Danger	In contact with water releases flammable gases which may ignite spontaneously	Category 1 UNRTDG No. 1295, Class: 4.3(3, 8), PG I
13 Oxidizing liquids	Not classified	-	-	-	Not classified because of UNRTDG No. 1295, Class: 4.3(3, 8), PGI (not Class: 5.1).
14 Oxidizing solids	Not applicable	-	-	-	Liquid (GHS definition)
15 Organic peroxides	Not applicable	-	-	-	Inorganic compound
16 Corrosive to metals	Classification not possible	-	-	-	Although HSDB (2002) and ICSC (J) (2002) have the description "it reacts with waters and moisture to produce hydrochloric acids and indicates corrosion behavior," since there is no data about independent corrosion behavior, it cannot be classified.

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Category 4	Exclamation mark	Warning	Harmful if swallowed	Category 4 based on SPECIES: Rat; ENDPOINT: LD50:VALUE:1030mg/kg; REFERENCE SOURCE: RTECS (2006)
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)	Category 2	Skull and crossbones	Danger	Fatal if inhaled	Based on mouse LC50 = 1500mg/m3/2H (equivalent: 191.8ppm/4H) (RTECS, 2006), it was classified as Category 2. (Since LC50 value was less than 90% of the saturations vapor concentration of this product, it was classified by the ppm concentration standard.)
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Category 1A-1C	Corrosion	Danger	Causes severe skin burns and eye damage	There are a statement that corrosiveness at the human skin is shown (ICSC (J), (2002), HSFS (1999)) and that a strong burn against the human skin is caused (HSDB (2002)). It was set as category 1A-1C. In addition, further categorizing is difficult.
3 Serious eye damage / eye irritation	Category 1	Corrosion	Danger	Causes serious eye damage	In ICSC(J)(2002) and HSFS (1999), there is a statement that corrosion to the human eye is caused, and in HSDB (2002), there is a statement that thermal burn to the human eye is caused. So it was set as Category 1.
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 2 (respiratory)	Health hazard	Warning	May cause damage to organs (respiratory)	There is description that caustic is indicated in a human airway and cause pulmonary edemas by inhalation vapors in ICSC (J) (2002) and HSFS (1999) of Priority 2 document, strong stimulativeness against human respiratory organs is indicated in HSDB (2002), and it was considered as Category 2 (respiratory systems).
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

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.