GHS Classification

ID709

2-Chloro-6-(trichloromethyl)pyridine

Date Classified: Jul. 24, 2006 (Environmental Hazards: Mar. 31, 2006)

CAS 1929-82-4 Physical Hazards Reference Manual: GHS Classification Manual (Feb. 10, 2006)

Haz	ard 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	-	ı	-	Solid (GHS definition)
6	Flammable liquids	Not applicable	-	-	-	Solid (GHS definition)
7	Flammable solids	Classification not possible	-	-	-	No data available
8	Self-reactive substances and mixtures	Not applicable	-	ı	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9	Pyrophoric liquids	Not applicable	-	1	-	Solid (GHS definition)
10	Pyrophoric solids	Not classified	-	-	-	Since it was possible to judge that there was no spontaneous combustibility because the ignition point (> 93 degC) was measured (PM (13th, 2003)), it was defined as "out of Category".
11	Self-heating substances and mixtures	Classification not possible	-	-	-	Test methods applicable to solid (melting point <= 140degC) substances are not available.
12	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	-	The chemical structure of the substance does not contain metals or metaloids(B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At).
13	Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14	Oxidizing solids	Not applicable	-	-	-	Organic compounds containing chlorine (but not oxygen and fluorine) and the chlorine is chemically bonded only to carbon (but not to other elements).
15	Organic peroxides	Not applicable	-	-	_	Organic compounds containing no −0−0− structure
16	Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available. Melting point: >55degC

Health Hazards

Haz	ard 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:940 mg/kg; REFERENCE SOURCE: ACGIH (2001)
1	Acute toxicity (dermal)	Category 3	Skull and crossbones	Danger	Toxic in contact with skin	It was set as Category 3 based on rabbit LD50 = 850mg/kg (ACGIH (2001)).
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		It was classified as Category 2 based on the statement that it has a possibility of causing irritation and disorder to the skin on contact (SITTIG (4th, 2002)).
3	Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning		There was a statement of the purport that there is a possibility of doing a stimulus and a disorder to an eye by contact by humans (HSFS (2000), SITTIG (4th, 2002)), and since there was no description that how degrees, it was set as Category 2A-2B.
4	Respiratory/skin sensitization	Respiratory 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	Not classified	-	-	-	Based on the category by ACGIH being A4, it carried out the outside of Category.
7	Toxic to reproduction	Classification not possible	_	_	-	Since although there was a description that dysgenesis in neonatal's head and faceof rabbit (RTECS (2004)), there was no statements about content and about levels of abnormalities and there was no data in others, it presupposed that it cannot classify since data is insufficient.

8	Specific target organs/systemic toxicity following single exposure	Category 3 (narcotic	Exclamation mark	Warning	drowsiness and	There is the description that there is a possibility that high concentration dusts may cause dizziness and unconsciousness in humans (SITTIG (4th, 2002)), there is the description that a nose and a throat are stimulated in humans (HSFS (2000), SITTIG (4th, 2002)), and it is classified into Category 3 (anesthetic actions, respiratory irritation).
g	Specific target organs/systemic toxicity following repeated exposure	Category 2 (liver, kidneys)	Health hazard	Warning		It was classified to as Category 2 (liver, kidney) based on the statement that there is a possibility of doing a damage to liver and the kidney in human as effects of long term or repeated exposure (SITTIG (4th, 2002)).
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	Hazardous to the aquatic environment (acute)	Category 2	-	-	Toxic to aquatic life	It was classified into Category 2 from 48-hour EC50=2.2ppm of Crustacea (Daphnia magna) (AQUIRE, 2003).
1	1 Hazardous to the aquatic environment (chronic)	Category 2	Environment		Toxic to aquatic life with long lasting effects	Classified into Category 2, since acute toxicity was Category 2 and supposed not rapidly degrading (BIOWIN), though supposed less bio-accumulative (log Kow=3.41(PHYSPROP Database, 2005)).