

GHS Classification

ID771

Dichloroacetylene

CAS 7572-29-4

Date Classified: Apr. 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	Classification not possible	-	-	-	No data available
2 Flammable gases	Not applicable	-	-	-	Liquid (room temperature)
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Liquid (room temperature)
5 Gases under pressure	Not applicable	-	-	-	Liquid (room temperature)
6 Flammable liquids	Classification not possible	-	-	-	No data available
7 Flammable solids	Not applicable	-	-	-	Liquid (room temperature)
8 Self-reactive substances and mixtures	Classification not possible	-	-	-	No data available
9 Pyrophoric liquids	Classification not possible	-	-	-	No data available
10 Pyrophoric solids	Not applicable	-	-	-	Liquid (room temperature)
11 Self-heating substances and mixtures	Classification not possible	-	-	-	Test methods applicable to liquid 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 metalloids(B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At).
13 Oxidizing liquids	Not applicable	-	-	-	Organic compounds containing chlorine (but not oxygen and fluorine) chemically bonded only to carbon (but not to other elements).
14 Oxidizing solids	Not applicable	-	-	-	Liquid (room temperature)
15 Organic peroxides	Not applicable	-	-	-	There are no chemical groups associated with peroxide present in the molecule.
16 Corrosive to metals	Classification not possible	-	-	-	Test methods 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	-	-	-	Liquid (room temperature)
1 Acute toxicity (inhalation: vapour)	Category 1	Skull and crossbones	Danger	Fatal if inhaled	There were two kinds of data for rat inhalation for 4 hours LC50 = 219ppm and 55ppm (ACGIH (2001)). And it was classified as Category 1 based on the lower value of 55ppm.
1 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	Based on what the eye irritations are reported in humans according to epidemiological data, it was classified with Category 2A-2B
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	-	-	-	Insufficient data available
6 Carcinogenicity	Not classified	-	-	-	Based on being classified into the group 3 of IARC, it classified out of Category.
7 Toxic to reproduction	Classification not possible	-	-	-	No data available

8	Specific target organs/systemic toxicity following single exposure	Category 1 (central nervous system, kidneys); Category 3 (respiratory tract irritation)	Health hazard; Exclamation mark	Danger; Warning	Cause damage to organs (central nervous system, kidneys); May cause respiratory irritation or may cause drowsiness and dizziness (respiratory tract irritation)	There is many reports of the central-nerves condition in the humans in an accident (PATTY (5th, 2001), ACGIH (2001), IARC 39 (1986), DFGOTvol.6 (1994)), and the report of effect into the central-nerves condition and the kidney in rabbit (ACGIH (2001), IARC 39 (1986)), and in rat (PATTY (5th, 2001)). So it classified into Category 1 (central nervous systems, kidney) . And based on the accident reporting of respiratory irritation in human (PATTY (5th, 2001), IARC 39 (1986)), it is classified into category 3 (respiratory irritation).
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (kidneys); Category 2 (central nervous system)	Health hazard	Danger; Warning	Causes damage to organs (kidneys) through prolonged or repeated exposure; May cause damage to organs (central nervous system) through prolonged exposure	Based on that effect to the kidney is acknowledged in rat inhalation study (ACGIH (2001), DFGOTvol.6 (1994), PATTY (5th, 2001), IARC 39 (1986)), it was classified as Category 1 (kidney). Moreover, based on that the central nervous systems effects is acknowledged in the oral examination of a rat (ACGIH (2001), DFGOTvol.6 (1994)), it was classified as Category 2 (central nervous systems).
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.