GHS Classification

ID544

Trichloroacetonitrile

CAS 545-06-2 Physical Hazards

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

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

Haza	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Explosives	Not applicable	-	-	_	Containing no chemical groups with explosive properties
2	Flammable gases	Not applicable	_	-	_	Classified as "liquid" according to GHS definition
3	Flammable aerosols	Not applicable	_	-	_	Not aerosol products
4	Oxidizing gases	Not applicable	_	-	_	Classified as "liquid" according to GHS definition
5	Gases under pressure	Not applicable	_	-	_	Classified as "liquid" according to GHS definition
6	Flammable liquids	Classification not possible	_	-	_	No data available
7	Flammable solids	Not applicable	_	-	_	Classified as "liquid" according to GHS definition
8	Self-reactive substances and mixtures	Not applicable	_	-	_	Containing no chemical groups with explosive or self-reactive properties
9	Pyrophoric liquids	Classification not possible	-	-	-	No data available
10	Pyrophoric solids	Not applicable	-	-	-	Classified as "liquid" according to GHS definition
11	Self-heating substances and mixtures	Classification not possible	-	-	_	Test methods applicable to liquid substances are not available.
	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	_	Containing no 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), with the chlorine bound to carbon and hydrogen (but not to other elements)
14	Oxidizing solids	Not applicable	-	-	-	Classified as "liquid" according to GHS definition
15	Organic peroxides	Not applicable	_	-	_	Organic compounds containing no "-O-O-" structure
16	Corrosive to metals	Classification not possible	-	_	_	No data available

Health Hazards

Haza	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Category 3	Skull and crossbones	Danger	Toxic if swallowed	Based on the rat LD50 (oral route) value of 250mg/kg (RTECS (2003).
1	Acute toxicity (dermal)	Category 4	Exclamation mark	Warning	Harmful in contact with skin	Based on the LD50 value of 1,300mg/kg, converted from the testing data of rabbit LD50 (dermal route) of 900microL/kg (RTECS (2003)), using specific gravity of 1.44 (25degC/4degC).
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Due to the fact that the substance is "liquid" according to the GHS definition and inhalation of its gas is not expected.
1	Acute toxicity (inhalation:	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	Based on the description in the report on rabbit skin irritation tests (24 hour application) (RTECS (2003)): "Severe irritation was observed."
3	Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning	Causes serious eye irritation	Based on the description in the report on rabbit eye irritation tests (RTECS (2003)): "Severe irritation was observed." The substance was thus considered a severe eye irritant.
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)—	Respiratory sensitization: No data available Skin sensitization: No data available
5	Germ cell mutagenicity	Not classified	-	-	-	Based on the absence of data on multi-generation mutagenicity tests and germ cell mutagenicity tests in vivo, and negative data on somatic cell mutagenicity tests in vivo (micronucleus tests), described in IARC 52 (1991), EHC 182 (1996) and NTP DB (Access on June, 2006).
6	Carcinogenicity	Not classified	_	_	_	Due to the fact that the substance is classified as Category 3 by IARC 71 (1999).
7	Toxic to reproduction	Category 1B	Health hazard	Danger	May damage fertility or the unborn child	Based on the evidence of fetal toxicity and teratogenicity at non-parentally toxic doses, described in IARC 52 (1991) and EHC 182 (1996).
8	Specific target organs/systemic toxicity following single exposure	Category 3 (narcotic effects)	Exclamation mark	Warning	(Narcotic effects) May cause drowsiness or dizziness	Based on the evidence from animal studies including "lacrimation, somnolency (reduced locomotor activity), and dyspnea" (RTECS (2003)).
	exposure	Classification not possible	_	-	_	No data available
10	Aspiration hazard	Classification not possible	_	_	_	No data available

Environmental Hazards

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	Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
Ī	11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	No data available
Γ	11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	No data available