GHS Classification

ID522

CAS 90-13-1 Physical Hazards

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

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

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Н	laza	rd 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	Not classified	_	_	_	The flash point is 121degC (c.c.) (NFPA (13th, 2002))			
	7	Flammable solids	Not applicable	_	-	_	Classified as "liquid" according to GHS definition			
	~	Self-reactive substances and mixtures	Not applicable	-	-	_	Containing no chemical groups with explosive or self-reactive properties			
	9	Pyrophoric liquids	Not classified	-	-	_	Not pyrophoric when in contact with air at ordinary temperatures (flash point: >558degC (NFPA, 13th, 2002))			
	10	Pyrophoric solids	Not applicable	-	_	-	Classified as "liquid" according to GHS definition			
		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			
		Organic peroxides	Not applicable	-	_	_	Organic compounds containing no "-0-0-" structure			
	16	Corrosive to metals	Classification not possible	-	-	-	No data available			

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	Based on the rat LD50 (oral route) value of 1,540mg/kg (CICAD 34 (2001)).
1	Acute toxicity (dermal)	Classification not possible	-	_	_	No data available
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	1	_	_	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 HSDB (2003) of the human health effects: "It is an irritant to the skin." Although classified into Category 2-3 in the absence of data regarding the degree of irritation, the substance should be placed in Category 2 from the viewpoint of safety.
3	Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning	Causes serious eye irritation	Based on the description in HSDB (2003) of the human health effects: "It is an irritant to the eyes." Although classified into Category 2A-2B in the absence of data regarding the degree of irritation, the substance should be placed in Category 2 from the viewpoint of safety if further subclassification is needed.
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	Classification not possible	-	_	_	Based on the absence of data on in vivo mutagenicity tests and no positive data on in vitro mutagenicity tests (several indices), described in NTP DB (Access on June 2006) and CICAD 34 (2001).
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 (systemic toxicity)	Health hazard	Warning	May cause damage to organs (systemic	Based on the human evidence: "Symptoms may include headache, fatigue, vertigo and anorexia" (HSDB (2003)).
9	Specific target organs/systemic toxicity following repeated exposure	Category 2 (skin)	Health hazard	Warning	May cause damage to organs through prolonged or repeated exposure (skin)	Based on the human evidence: "chloracne may develop after chronic exposure" (HSDB (2003)). Since the priority rating of the referenced study is 2, these effects are classified into Category 2 (skin).
10	Aspiration hazard	Classification not possible	_	_	_	No data available

Environmental Hazards

Hazard class		Classification	symbol	signal word	hazard statement	Rational for the classification
1	Hazardous to the aquatic environment (acute)	Category 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 96 hours LC50=0.37mg/L of the crustacea (Mysid Shrimp)) (CICAD34, 2001).
1	Hazardous to the aquatic environment (chronic)	Category 1	Environment			Although acute toxicity is Category 1 and bio-accumulation is low (BCF-442(Existing Chemical Safety Inspections Data,)), since there was no rapidly degrading (the decomposition by BOD: 0%(Existing Chemical Safety Inspections Data)), it was classified into Category 1.