

GHS Classification

ID129

Dichloroethylene

CAS 25323-30-2

Date Classified: Jun. 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	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	Category 1 (1, 1-form), Category 2 (1, 2-form)	Flame	Danger	Extremely flammable liquid and vapour Highly flammable liquid and vapour	As for 1,1-form, the flash point is -25degC (c.c.) and the boiling point is 32degC (ICSC (2004)). As for cis-1,2-form, the flash point is 6degC (c.c.) and the boiling point is 60degC (ICSC (2003)). As for trans-1,2-form, the flash point is 2-4degC (c.c.) (ICSC (2003)) and the boiling point is 48.7degC (Lide (84th, 2003)). 1,2-form is classified into Class 3, Packing Group II (UN#1150) (UN Recommendations on the Transport of Dangerous Goods), though 1,1-form is not listed.
7 Flammable solids	Not applicable	—	—	—	Classified as "liquid" according to GHS definition
8 Self-reactive substances and mixtures	Classification not possible (1, 1-form). Not classified (1, 2-form)	—	—	—	Classification not possible due to lack of data, though containing unsaturated bonds. 1, 2-form is classified into Class 3 (UN#1150) (UN Recommendations on the Transport of Dangerous Goods).
9 Pyrophoric liquids	Not classified	—	—	—	Not pyrophoric when in contact with air at ordinary temperatures (the auto-ignition temperature: 570degC (1,1-form) (ICSC, 2004); the auto-ignition temperature: 460degC (1,2-form) (ICAC, 2003))
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
12 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 (1, 1-form and trans-1, 2-form). Not classified (cis-1, 2-form)	—	—	—	As for 1,1-form and trans-1,2-form, test methods applicable to gaseous substances are not available (boiling point: 32degC (1,1-form) (ICSC, 2004) and 48.7degC (trans-1,2-form) (Lide, 84th, 2003), test temperature: 55degC). As for cis-1,2-form, classified into Class 3 (UN#1150, 1, 2-dichloroethylene) (UN Recommendations on the Transport of Dangerous Goods).

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	—	—	—	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	Classification not possible	—	—	—	No data available
3 Serious eye damage / eye irritation	Classification not possible	—	—	—	No data available
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	—	—	—	No data available
6 Carcinogenicity	Classification not possible	—	—	—	No data available
7 Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of damaging fertility or the unborn child	Based on the evidence of heart malformation in offspring, described in HSDB (2005) (though no data are available on parental toxicity).
8 Specific target organs/systemic toxicity following single exposure	Classification not possible	—	—	—	No data available
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