

GHS Classification

ID1287

1,1,2,2-Tetrachloro-1-nitroethane

CAS 39185-89-2

Date Classified: Jan. 23, 2007 (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	—	—	—	Classification not possible due to lack of data on an explosibility, though the substance contains N-O bonds as chemical groups with explosive properties present and has the oxygen balance calculated at -18.8, higher than -200 of the criteria.
2 Flammable gases	Not applicable	—	—	—	Liquid (GHS definition)
3 Flammable aerosols	Not applicable	—	—	—	Not aerosol products
4 Oxidizing gases	Not applicable	—	—	—	Liquid (GHS definition)
5 Gases under pressure	Not applicable	—	—	—	Liquid (GHS definition)
6 Flammable liquids	Classification not possible	—	—	—	No data available
7 Flammable solids	Not applicable	—	—	—	Liquid (GHS definition)
8 Self-reactive substances and mixtures	Not classified	—	—	—	Although the grouping relevant to explosive (N-O) was included, the grouping relevant to autoreactive was not included and the uses were pesticide (soil pesticide). So it was thought that there was no autoreactive and it was classified as outside of Category.
9 Pyrophoric liquids	Not classified	—	—	—	Uses are agrochemical (soil pesticide), and even if it contacts the normal temperature air, it does not ignite
10 Pyrophoric solids	Not applicable	—	—	—	Liquid (GHS definition)
11 Self-heating substances and mixtures	Classification not possible	—	—	—	No data 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	Classification not possible	—	—	—	No data available
14 Oxidizing solids	Not applicable	—	—	—	Liquid (GHS definition)
15 Organic peroxides	Not applicable	—	—	—	Organic compounds containing no -O-O- structure
16 Corrosive to metals	Classification not possible	—	—	—	Although guidance of toxic substance highly poisonous substance handling (Jiji Press Co.,latest versions, 2001) and the substance all data for Poisonous and Violent Substances Control LawMSDS (Chemical Daily, 2001) have the description "it has corrosion behavior", data is insufficient. So it cannot be classified.

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 (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	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)-	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	Classification not possible	–	–	–	No data available
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.