

GHS Classification

ID1422

CAS 14275-57-1

(Z)-5,5,12,12-Tetrabutyl-7,10-dioxo-6,11-dioxa-5,12-distannahexadec-8-ene

Date Classified: Oct. 23, 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" or "solid" according to GHS definition
3 Flammable aerosols	Not applicable	—	—	—	Not aerosol products
4 Oxidizing gases	Not applicable	—	—	—	Classified as "liquid" or "solid" according to GHS definition
5 Gases under pressure	Not applicable	—	—	—	Classified as "liquid" or "solid" according to GHS definition
6 Flammable liquids	Classification not possible (liquid)	—	—	—	No data available
7 Flammable solids	Classification not possible (solid)	—	—	—	No data available
8 Self-reactive substances and mixtures	Classification not possible	—	—	—	Classification not possible due to lack of data, though containing unsaturated bonds (olefin).
9 Pyrophoric liquids	Classification not possible (as a liquid)	—	—	—	No data available
10 Pyrophoric solids	Classification not possible (as a solid)	—	—	—	No data available
11 Self-heating substances and mixtures	Classification not possible	—	—	—	No data available
12 Substances and mixtures, which in contact with water, emit flammable gases	Classification not possible	—	—	—	Classification not possible due to lack of data, though containing Sn (a metalloid)
13 Oxidizing liquids	Classification not possible (liquid)	—	—	—	Classification not possible due to lack of data, though being organic compounds containing oxygen bound to elements other than carbon and hydrogen
14 Oxidizing solids	Classification not possible (as a solid)	—	—	—	Classification not possible due to lack of data, though being organic compounds containing oxygen bound to elements other than carbon and hydrogen
15 Organic peroxides	Not applicable	—	—	—	Organic compounds containing no "-O-O-" structure
16 Corrosive to metals	Classification not possible	—	—	—	No data 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	—	—	—	Due to the fact that the substance is a liquid or solid according to the GHS definition and inhalation of its gas is not expected.
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	—	—	—	No data available
2 Skin corrosion / irritation	Classification not possible	—	—	—	No data available. As for the health hazards, refer to "ID428, Tributyl Tin Chloride, CAS: 1461-22-9."
3 Serious eye damage / eye irritation	Classification not possible	—	—	—	No data available. As for the health hazards, refer to "ID428, Tributyl Tin Chloride, CAS: 1461-22-9."
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	Classification not possible	—	—	—	No data available
8 Specific target organs/systemic toxicity following single exposure	Classification not possible	—	—	—	No data available. Refer to "Tributyl Tin Oxide (ID: 1275, CAS: 56-35-9)."
9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	—	—	—	No data available. Refer to "Tributyl Tin Oxide (ID: 1275, CAS: 56-35-9)."
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)	Category 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 96 hours LC50=0.084ppb of the fish (Bluegill) (AQUIRE, 2003).
11	Hazardous to the aquatic environment (chronic)	Category 1	Environment	Warning	Very toxic to aquatic life with long lasting effects	Since acute toxicity was Category 1 and there was no rapidly degrading (it was hydrolyzed, and triphenyltin hydroxide was generated, and was residue(existing chemical safety inspections data)), and since there was bio-accumulation (BCF=9210(triphenyltin hydroxide) (existing chemical safety inspections data)), it was classified into Category 1.