## **GHS Classification**

ID1278

Tri-n-propyltin

Date Classified: Feb. 20, 2007 (Environmental Hazards: Mar. 31, 2006)

CAS 2279-76-7 Physical Hazards Reference Manual: GHS Classification Manual (Feb. 10, 2006)

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Explosives	Not applicable	-	_	-	There are no chemical groups associated with explosive properties present in the molecules.
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	Not classified	-	-	-	The flash point was described as 95 degC, in BGIA, GESTIS-database on hazardous substances (Accessed in July 2006), and made it them out of Category.
7	Flammable solids	Not applicable	-	-	-	Liquid (GHS definition)
8	Self-reactive substances and mixtures	Not applicable	-	-	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9	Pyrophoric liquids	Not classified	-	-	_	Uses are agricultural chemicals, and even if it contacts the normal temperature air, it does not ignite spontaneously.
10	Pyrophoric solids	Not applicable	-	-	-	Liquid (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 classified	-	-	-	Stable to water (the water solubility is obtained)
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 −0−0− 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)	Classification not possible	-	-	-	No data available
1	Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	1	Liquid (GHS definition)
	vapour)	Classification not possible	-	ı	-	No data available
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	Ī	No data available
2	Skin corrosion / irritation	Classification not possible	-	ı	İ	There is the knowledge that an organic tin compounds indicateds skin irritation (Patty 5th, 2001;ATSDR, 2005), But there is no data of this product and it cannot be classified.
	Serious eye damage / eye irritation	Classification not possible	-	-		Although there is knowledge (ACGIH 7th, 2001-atty 5th, 2001; ATSDR, 2005) that eye irritation is indicated with organic tin compounds, there is no this product data. So it cannot classify.
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Classification not	(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	-	-		The organotin compounds is classified into A4 (it cannot classify into a the human carcinogens) in ACGIH. On the other hand, there is also a knowledge that a certain kind of organotin compounds induces cancer to animals (ATSDR, 2005) and data of its this product themselves cannot be found. Therefore, it cannot be classified since the data is insufficient.
7	Toxic to reproduction	Classification not possible	-	-		Although there is a description (ATSDR, 2005) suggesting a possibility that organotin compounds will affect genitalium of animals, there is no data of this product. And data is insufficient, it cannot be classified.

	Specific target organs/systemic toxicity following single exposure	Category 1 (central nervous system); Category 3 (respiratory tract irritation)	Health hazard		respiratory irritation or may cause	Although there is no data of this product itself, from the influence on the central nervous systems in human as an organic tin compounds (ATSDR, 2005; ACGIH 7th, 2001; Patty 5th, 2001) and the potential of respiratory irritant (ATSDR, 2005; ACGIH 7th, 2001) being indicated, it was considered as Category 1 (central nervous systems) and Category 3 (respiratory irritant).
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (immune system)	Health hazard	Danger		Although own data of this product could not be found, since the impacts of effects on the human immune system was suggested by as an organic tin compounds (ATSDR, 2005;ACGIH 7th, 2001–atty 5th, 2001), it was classified into Category 1 (immune systems).
10	Aspiration hazard	Classification not possible	-	-	-	No data available

## **Environmental Hazards**

Ha	zard 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 24-hour EC50=37microg/L of Crustacea (Daphnia magna) (AQUIRE, 2003).
1	Hazardous to the aquatic environment (chronic)	Category 1	Environment	Warning	Very toxic to aquatic life with long lasting effects	Classified into Category 1, since acute toxicity was Category 1, and it is a metallic compound, behavior in water and bioaccumulative potential are unknown.