This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date Not Applicable

Revision Number N/A

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) DRE-C17150000

Product Name TBTC (Tributyltin-chloride)

Form Not applicable

NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II

EC No (EU Index No) 215-958-7

**CAS No.** 1461-22-9

Chemical name Tributyltin chloride

Pure substance/mixture Substance

Formula C12 H27 CI S N

Molecular weight 325.49

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Laboratory use

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier

Will be updated as per company.

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Revision date Not Applicable

Revision Number N/A

DRE-C17150000 - Tributyltin-chloride (TBT
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1.4. Emergency telephone number
---------------------------------

Emergency Telephone Will be updated as per company.

Emergency Telephone - §45 - (EC)12	272/2008
Europe	112
Austria	No information available
Bulgaria	
Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	
Netherlands	
Norway	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	
Sweden	
Switzerland	

# **SECTION 2: Hazards identification**

2.1. Classification of the substance or i	mixture
---	---------

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 3 - (H301)
Acute toxicity - Dermal	Category 4 - (H312)

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date Not Applicable

Revision Number N/A

## DRE-C17150000 - Tributyltin-chloride (TBTC)

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Reproductive toxicity	Category 1B - (H360FD)
Specific target organ toxicity — repeated exposure	Category 1 - (H372)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

#### 2.2. Label elements

#### 215-958-7

Contains Tributyltin chloride







## Signal word

Danger

#### **Hazard statements**

H360FD - May damage fertility. May damage the unborn child

H301 - Toxic if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H372 - Causes damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

## Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P391 - Collect spillage

#### 2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

This product does not contain any known or suspected endocrine disruptors.

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date Not Applicable

Revision Number N/A

## DRE-C17150000 - Tributyltin-chloride (TBTC)

Chemical name	EU - REACH (1907/2006) - Article 59(1)	EU - REACH (1907/2006) - Endocrine
	- Candidate List of Substances of Very	Disruptor Assessment List of
	High Concern (SVHC) for Authorisation	Substances
Tributyltin chloride	-	-

## **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Chemical name	Weight-%	REACH registration	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Tributyltin chloride	100		215-958-7	Acute Tox. 3 (H301)	Eye Irrit. 2 ::	10	10
1461-22-9			(050-008-00	Acute Tox. 4 (H312)	C>=1%		
			-3)	Skin Irrit. 2 (H315)	Skin Irrit. 2 ::		
				Eye Irrit. 2 (H319)	C>=1%		
				Repr. 1B (H360FD)	STOT RE 1::		
				STOT RE 1 (H372)	C>=1%		
				Aquatic Acute 1 (H400)	STOT RE 2::		
				Aquatic Chronic 1	0.25%<=C<1%		
				(H410)			

## Full text of H- and EUH-phrases: see section 16

#### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical	name	Oral LD50 mg/k	g Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
			mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
Tributyltin c	hloride	122	No data available	No data available	No data available	No data available
1461-2	2-9					

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date Not Applicable

## DRE-C17150000 - Tributyltin-chloride (TBTC)

4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms

persist, call a doctor.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Wear personal protective clothing

(see section 8). Avoid contact with skin, eyes or clothing.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the No info

No information available.

chemical

5.3. Advice for firefighters

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Revision date Not Applicable

Revision Number N/A

## DRE-C17150000 - Tributyltin-chloride (TBTC)

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas.

**Other information** Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and

wash it before reuse.

General hygiene considerations Wash hands before breaks and immediately after handling the product. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands

before breaks and after work. Wear suitable gloves and eye/face protection.

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date Not Applicable

Revision Number N/A

## DRE-C17150000 - Tributyltin-chloride (TBTC)

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions#

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

#### 7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Tributyltin chloride 1461-22-9		TWA: 0.002 ppm TWA: 0.05 mg/m³ STEL 0.008 ppm STEL 0.2 mg/m³ Sk*	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³ Sk*	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Tributyltin chloride 1461-22-9		TWA: 0.1 mg/m³ Sk* Ceiling: 0.2 mg/m³	TWA: 0.1 mg/m³ TWA: 0.002 ppm TWA: 0.05 mg/m³ STEL: 0.2 mg/m³ except Tri-n-butyltin compounds STEL: 0.004 ppm STEL: 0.1 mg/m³ Sk*	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³ Sk*	TWA: 0.1 mg/m³ STEL: 0.3 mg/m³ Sk*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Tributyltin chloride 1461-22-9	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³	TWA: 0.009 mg/m <sup>3</sup> TWA: 0.0018 ppm	TWA: 0.004 ppm TWA: 0.02 mg/m <sup>3</sup> Peak: 0.004 ppm Peak: 0.02 mg/m <sup>3</sup>	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³ Sk*	TWA: 0.02 mg/m³ Sk*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Tributyltin chloride 1461-22-9	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³	-	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³ Sk*	-	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³ Sk*

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date Not Applicable

Revision Number N/A

## DRE-C17150000 - Tributyltin-chloride (TBTC)

Chemical name	Lu	xembourg	Malta	Netherlands	Nor	way	Poland
Tributyltin chloride		-	-	-		.1 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
1461-22-9					STEL: 0	.3 mg/m <sup>3</sup>	Sk*
					S	k*	
Chemical name	Portugal		Romania	Slovakia	Slov	/enia	Spain
Tributyltin chloride	TWA: 0.1 mg/m <sup>3</sup>		TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.0	009 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
1461-22-9	STEL: 0.2 mg/m <sup>3</sup>		STEL: 0.15 mg/m <sup>3</sup>	Sk*	TWA: 0.0018 ppm		STEL: 0.2 mg/m <sup>3</sup>
				Ceiling: 0.2 mg/m <sup>3</sup>	STEL: 0.0018 ppm		Sk*
					STEL: 0.0	009 mg/m <sup>3</sup>	
					S	k*	
Chemical name		Sv	weden	Switzerland		United Kingd	
Tributyltin chloride	Tributyltin chloride		NGV: 0.1 mg/m <sup>3</sup>		m	TWA: 0.1 mg/m <sup>3</sup>	
1461-22-9			Sk*	TWA: 0.02 mg/r	n <sup>3</sup>	STEL: 0.2 mg/m <sup>3</sup>	
				STEL: 0.004 pp			Sk*
				STEL: 0.02 mg/r	m³		
				Sk*			

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Hand protection

Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear

protective butyl rubber gloves. Polyvinyl chloride (PVC).

0.5 mm

Gloves							
Duration of contact	PPE - Glove material	Glove thickness	Break through time				
	Wear protective butyl	0.5 mm	480 minutes				
	rubber gloves						

**Skin and body protection**Long sleeved clothing. Wear suitable protective clothing.

Polyvinyl chloride (PVC)

# Will be updated as per company.

120 minutes

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Revision date Not Applicable

DRE-C17150000 - Tributyltin-chloride (TBTC)

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Wash hands before breaks and immediately after handling the product. Avoid contact with General hygiene considerations

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands

before breaks and after work. Wear suitable gloves and eye/face protection.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

9.1.Information on basic physical and chemical properties

Physical state Liquid Appearance Liquid

colourless to light yellow Colour

Odour unpleasant.

No information available **Odour threshold** 

Remarks • Method Values

Melting point / freezing point None known -9 °C Initial boiling point and boiling range140 °C @ 1300 Pa No data available None known **Flammability** 

None known

Flammability Limit in Air Upper flammability or explosive No data available

limits

No data available Lower flammability or explosive limits

108 °C None known Flash point 399 °C **Autoignition temperature** None known **Decomposition temperature** None known

No data available pН None known

No data available No information available pH (as aqueous solution)

No data available None known **Kinematic viscosity** @ 20°C Dynamic viscosity 7 mPas No data available 75.8 mg/L @ 20 °C Water solubility No data available Solubility(ies) None known

Partition coefficient 2.21 None known Vapour pressure 0.49 Pa @ 25 °C None known Relative density 1.20 None known

**Bulk density** No data available **Liquid Density** No data available

Relative vapour density No data available None known

Particle characteristics

Revision Number N/A

Particle SizeNo information availableParticle Size DistributionNo information available

9.2. Other information

Molecular weight 325.49

Molecular formula C12 H27 CI S N

## 9.2.1. Information with regards to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

No information available

# SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

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#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea. Toxic if swallowed. (based on

components).

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes.

## Numerical measures of toxicity

#### **Acute toxicity**

## **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Tributyltin chloride	= 122 mg/kg (Rat)		

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** No information available.

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**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union	
Tributyltin chloride	Repr. 1B	

STOT - single exposure No information available.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

## 12.1. **Toxicity**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Tributyltin chloride	EC50: 0.00049 mg/L (72h, Selenastrum capricornutum)	LC50: =7.9µg/L (96h, Danio rerio)	-	EC50: 0.0048 mg/L (48h, Daphnia magna)

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## 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
Tributyltin chloride	2.21

## 12.4. Mobility in soil

Mobility in soil No information available.

#### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This

substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

## 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

# **SECTION 14: Transport information**

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UN2788 14.1 UN number or ID number Organotin compound, liquid, n.o.s. (Tributyltin chloride) 14.2 UN proper shipping name 14.3 Transport hazard class(es) 6.1 14.4 Packing group UN2788, Organotin compound, liquid, n.o.s. (Tributyltin chloride), 6.1, III Description 14.5 Environmental hazards Yes 14.6 Special precautions for user **Special Provisions** A3, A4, A6 **ERG Code** 61 **IMDG** UN2788 14.1 UN number or ID number Organotin compound, liquid, n.o.s. (Tributyltin chloride) 14.2 UN proper shipping name 6.1 14.3 Transport hazard class(es) 14.4 Packing group Ш UN2788, Organotin compound, liquid, n.o.s. (Tributyltin chloride), 6.1, III, Marine pollutant Description Р 14.5 Marine pollutant **Environmental hazards** Yes 14.6 Special precautions for user **Special Provisions** 43, 223, 274 F-A, S-A No information available EmS-No. No information available 14.7 Maritime transport in bulk according to IMO instruments RID 14.1 UN number or ID number UN2788 14.2 UN proper shipping name Organotin compound, liquid, n.o.s. (Tributyltin chloride) 14.3 Transport hazard class(es) 14.4 Packing group Description UN2788, Organotin compound, liquid, n.o.s. (Tributyltin chloride), 6.1, III, Environmentally Hazardous 14.5 Environmental hazards Yes 14.6 Special precautions for user **Special Provisions** 43, 274 Classification code T3 ADR UN2788 14.1 UN number or ID number 14.2 UN proper shipping name Organotin compound, liquid, n.o.s. (Tributyltin chloride) 14.3 Transport hazard class(es) 6.1 Ш 14.4 Packing group Description UN2788, Organotin compound, liquid, n.o.s. (Tributyltin chloride), 6.1, III, (E),

IATA

14.5 Environmental hazards

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Environmentally Hazardous

Yes

14.6 Special precautions for user

Special Provisions 43, 274
Classification code T3
Tunnel restriction code (E)

## **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water hazard class (WGK) strongly hazardous to water (WGK 3)

#### **Netherlands**

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Carcinogens	Reproductive Toxins
Tributyltin chloride		•	Fertility Category 1B Development Category 1B

## **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

#### **Persistent Organic Pollutants**

Not applicable

#### **Export Notification requirements**

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number
Tributyltin chloride - 1461-22-9	I.1

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I.3
-----

## Dangerous substance category per Seveso Directive (2012/18/EU)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

EU - Water Framework Directive (2000/60/EC)

Chemical name		EU - Water Framework Directive (2000/60/EC)	
Tributyltin chloride - 1461-22-9		Priority hazardous substance	

#### EU - Environmental Quality Standards (2008/105/EC)

Chemical name	EU - Environmental Quality Standards (2008/105/EC)	
Tributyltin chloride - 1461-22-9	Priority hazardous substance	

#### International Inventories

TSCA Company, to the best of its ability, has confirmed that the chemical substances in this product

are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as

amended Feb 2021."

DSL/NDSL
EINECS/ELINCS
Contact supplier for inventory compliance status

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

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## **SECTION 16: Other information**

## Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H360FD - May damage fertility. May damage the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

## Legend Section 8: Exposure controls/personal protection

TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

Method Used
Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

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European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

N/A

World Health Organization

Revision date

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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The Final Document will be available at the time of consignment. # Can vary as per company.

End of Safety Data Sheet

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