

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Trade name BIO-TROL TP5
- FIFRA Registration number 102007-2-43553

1.2 Relevant identified uses of the substance or mixture and uses advised against**Uses of the Substance / Mixture**

- FIFRA regulated use only.
- Pesticide

1.3 Details of the supplier of the safety data sheet**Company**

CH2O, Inc.
8820 Old Highway 99 SE
Tumwater, WA 98501

Telephone: (360) 943-6063
www.ch2o.com

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number): 800-424-9300, CNN4324.

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture**HCS 2012 (29 CFR 1910.1200)**

Acute toxicity, Category 3
Skin corrosion, Category 1B
Serious eye damage, Category 1

H331: Toxic if inhaled.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.

2.2 Label elements**HCS 2012 (29 CFR 1910.1200)****Pictogram****Signal Word**

- Danger

Hazard Statements

- H314 Causes severe skin burns and eye damage.
- H331 Toxic if inhaled.

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Precautionary StatementsPrevention

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- P363 Wash contaminated clothing before reuse.

Storage

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards which do not result in classification

- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients**3.1 Substance**

- Not applicable, this product is a mixture.

3.2 Mixture

- Chemical nature Aqueous solution

Hazardous Ingredients and Impurities

Chemical name	Identification number CAS-No.	Concentration [%]
Tributyl tetradecyl phosphonium chloride	81741-28-8	>= 5 - < 10

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First aid measures**4.1 Description of first-aid measures****General advice**

- Plan first aid action before beginning work with this product.
- First responder needs to protect himself.
- Do not leave the victim unattended.
- Show this material safety data sheet to the doctor in attendance.
- Place affected apparel in a sealed bag for subsequent decontamination.

In case of inhalation

- Remove victim from exposure and then have him lie down in the recovery position.
- If breathing is difficult, give oxygen.
- If victim has stopped breathing:
- administer CPR (cardio-pulmonary resuscitation)
- Get immediate medical advice/ attention.
- Take victim immediately to hospital.

In case of skin contact

- In case of contact, immediately flush skin with plenty of water for at least 30 minutes.
- Remove contaminated clothing and shoes.
- Get immediate medical advice/ attention.
- Discard contaminated shoes and clothing.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Get immediate medical advice/ attention.

In case of ingestion

- Do not induce vomiting without medical advice.
- If victim is conscious:
- Rinse mouth with water.
- Keep at rest.
- Do not give anything to drink.
- Do not leave the victim unattended.
- Vomiting may occur spontaneously
- Risk of product entering the lungs on vomiting after ingestion.
- Lay victim on side.
- Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed**Effects**

- Skin contact may aggravate existing skin disease
- Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis

4.3 Indication of any immediate medical attention and special treatment needed**Notes to physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Treat symptomatically.
- There is no specific antidote available.

SECTION 5: Firefighting measures

<u>Flash point</u>	Not applicable (aqueous liquid).
<u>Autoignition temperature</u>	no data available
<u>Flammability / Explosive limit</u>	no data available

5.1 Extinguishing media

Suitable extinguishing media

- Foam
- Multipurpose powders
- Carbon dioxide (CO₂)

Unsuitable extinguishing media

- In case of fire, never use water
- (burning material will float)

5.2 Special hazards arising from the substance or mixture**Specific hazards during fire fighting**

- Under fire conditions:
- Will burn
- Hazardous decomposition products formed under fire conditions.

Hazardous combustion products:

- On combustion or on thermal decomposition (pyrolysis), releases:
- Carbon oxides
- Oxides of phosphorus

5.3 Advice for firefighters**Special protective equipment for fire-fighters**

- Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Specific fire fighting methods

- In case of fire, never use water
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Cool down the containers / equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.

Further information

- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Avoid inhalation, ingestion and contact with skin and eyes.
- Use personal protective equipment.
- Tightly fitting safety goggles
- Face-shield
- Wear suitable gloves.
- Wear suitable protective clothing.
- In the case of dust or aerosol formation use respirator with an approved filter.
- In the case of vapor formation use a respirator with an approved filter.
- Stop leak if safe to do so.
- Eliminate all ignition sources if safe to do so.
- If spillage occurs on the public highway, indicate the danger and notify the authorities (police, fire service).

6.2 Environmental precautions

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Contain the spilled material by diking.
- The product should not be allowed to enter drains, water courses or the soil.
- If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- Local authorities should be advised if significant spillages cannot be contained.
- Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

6.3 Methods and materials for containment and cleaning up

Methods for containment

- Stop leak if safe to do so.
- Dam up with sand or inert earth (do not use combustible materials).

Recovery

- Absorb the product onto porous material.
- Shovel into suitable container for disposal.
- Keep in properly labeled containers.

Decontamination / cleaning

- Wash with plenty of water and detergent.
- Clean contaminated surface thoroughly.
- Recover the cleaning water for subsequent disposal.

Disposal

- Dispose of as hazardous waste in compliance with local and national regulations.

Additional advice

- Only qualified personnel equipped with suitable protective equipment may intervene.
- Mark the contaminated area with signs and prevent access to unauthorized personnel.
- Prevent unauthorized persons entering the zone.

- Ventilate the area.

6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Provide sufficient air exchange and/or exhaust in work rooms.
- Do NOT handle in a confined space.

- Avoid inhalation, ingestion and contact with skin and eyes.
- Avoid splashes.
- Avoid formation of aerosol.
- Do NOT handle without gloves.
- Do NOT handle if hands have any cuts or wounds.

Hygiene measures

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Store in original container.
- Keep in a contained area
- The floor of the storage area should be impermeable and designed to form a water-tight basin.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from incompatible materials to be indicated by the manufacturer
- Prevent unauthorized access.
- Keep away from: Do not mix with incompatible materials (See list, section 10).

Requirements for storage rooms and vessels

- Do not freeze.

7.3 Specific end use(s)

- no data available

SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters

- Contains no substances with occupational exposure limit values above their regulatory reporting threshold.

8.2 Exposure controls

Control measures

Engineering measures

- Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :
- Effective exhaust ventilation system
- Ensure adequate ventilation.
- Extract at emission point.
- Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- Avoid splashes.
- Avoid formation of aerosol.

Individual protection measures

Respiratory protection

- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
- Use a respirator with an approved filter if a risk assessment indicates this is necessary.

Hand protection

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Suitable material

- Impervious gloves

Eye protection

- Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
- Eye contact should be prevented through the use of:
 - Tightly fitting safety goggles
 - Face-shield

Skin and body protection

- Preventive skin protection
- Impervious clothing
- Footwear protecting against chemicals
- Protective suit
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
 - 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
 - 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
 - 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Protective measures

- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.
- The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	<u>Physical state:</u> liquid <u>Color:</u> colorless to pale yellow
<u>Odor</u>	slight
<u>Odor Threshold</u>	no data available
<u>pH</u>	3.5 - 6.5 (5 %) Aqueous solution 5.6 - 7.5 (100 %)
<u>Melting point/freezing point</u>	no data available
<u>Initial boiling point and boiling range</u>	ca. <u>Boiling point/boiling range:</u> 212 °F (100 °C)
<u>Flash point</u>	Not applicable (aqueous liquid).
<u>Evaporation rate (Butylacetate = 1)</u>	no data available
<u>Flammability (solid, gas)</u>	no data available
<u>Flammability (liquids)</u>	no data available
<u>Flammability / Explosive limit</u>	no data available
<u>Autoignition temperature</u>	no data available
<u>Vapor pressure</u>	no data available
<u>Vapor density</u>	no data available
<u>Density</u>	
<u>Relative density</u>	0.95 - 1.01 (68 °F (20 °C))
<u>Solubility</u>	<u>Water solubility:</u> soluble
<u>Partition coefficient: n-octanol/water</u>	no data available

<u>Decomposition temperature</u>	no data available
<u>Viscosity</u>	no data available
<u>Explosive properties</u>	no data available
<u>Oxidizing properties</u>	no data available

9.2 Other information

no data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

- Stable at normal ambient temperature and pressure.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- No dangerous reaction known under conditions of normal use.

polymerization

- Hazardous polymerization does not occur.

10.4 Conditions to avoid

- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid excessive heat for prolonged periods of time.

10.5 Incompatible materials

- Strong oxidizing agents
- Strong acids

10.6 Hazardous decomposition products

- On combustion or on thermal decomposition (pyrolysis), releases:
- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Chlorinated compounds
- Oxides of phosphorus

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

Tributyl tetradecyl phosphonium chloride

LD50 : 611 mg/kg - Rat , male and female
 Method: OECD Test Guideline 401
 This product is classified as acute toxicity category 4
 Unpublished internal reports

Acute inhalation toxicity

Acute toxicity estimate - 4 h (aerosol) 0.96 mg/l
 Method: Calculation method

Target Organs: Respiratory system
This product is classified as acute toxicity category 3

Acute dermal toxicity

Tributyl tetradecyl phosphonium chloride

LD50 : 4,000 mg/kg - Rat , male and female
Method: OECD Test Guideline 402
The product has a low acute toxicity
May be harmful in contact with skin.
Unpublished internal reports

Acute toxicity (other routes of administration)

no data available

Skin corrosion/irritation

Tributyl tetradecyl phosphonium chloride

Causes burns.
Extremely corrosive and destructive to tissue.
Expert judgment

Serious eye damage/eye irritation

Tributyl tetradecyl phosphonium chloride

Risk of serious damage to eyes.
Expert judgment

Respiratory or skin sensitization

no data available

Mutagenicity**Genotoxicity in vitro**

no data available

Genotoxicity in vivo

no data available

Carcinogenicity

no data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA

Toxicity for reproduction and development**Toxicity to reproduction / fertility**

no data available

Developmental Toxicity/Teratogenicity

no data available

STOT**STOT-single exposure**

no data available

STOT-repeated exposure

no data available

Experience with human exposure no data available

Aspiration toxicity no data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish

Tributyl tetradecyl phosphonium chloride

LC50 - 96 h : 0.065 mg/l - *Lepomis macrochirus* (Bluegill sunfish)
Method: OECD Test Guideline 203
Unpublished reports
Very toxic to fish.

Acute toxicity to daphnia and other aquatic invertebrates.

Tributyl tetradecyl phosphonium chloride

EC50 - 48 h : 0.025 mg/l - *Daphnia magna* (Water flea)
Method: according to a standardized method
Unpublished reports
Very toxic to aquatic invertebrates.

Toxicity to aquatic plants

Tributyl tetradecyl phosphonium chloride

ErC50 - 96 h : 0.019 mg/l - *Selenastrum capricornutum* (green algae)
Method: OECD Test Guideline 201
Unpublished reports
Very toxic to algae.

Toxicity to microorganisms

Tributyl tetradecyl phosphonium chloride

EC50 - 4 h : 0.029 mg/l - activated sludge
Method: OECD Test Guideline 209
Unpublished reports

Chronic toxicity to fish

no data available

Chronic toxicity to daphnia and other aquatic invertebrates.

no data available

Chronic Toxicity to aquatic plants

no data available

M-Factor

Tributyl tetradecyl phosphonium chloride

Acute aquatic toxicity = 10
Chronic aquatic toxicity = 10
(according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability**Abiotic degradation** no data available**Physical- and photo-chemical elimination** no data available**Biodegradation****Biodegradability**

Tributyl tetradecyl phosphonium chloride

Ready biodegradability study:
 Method: OECD Test Guideline 301
 The 10 day time window criterion is not fulfilled.
 The substance does not fulfill the criteria for ready biodegradability but fulfills the criteria for ultimate aerobic biodegradability
 Inoculum: activated sludge
 Unpublished reports

Degradability assessment

Tributyl tetradecyl phosphonium chloride

The product is not considered to be rapidly degradable in the environment

12.3 Bioaccumulative potential**Partition coefficient: n-octanol/water**

Tributyl tetradecyl phosphonium chloride

Not potentially bioaccumulable

Bioconcentration factor (BCF)

no data available

12.4 Mobility in soil**Adsorption potential (Koc)**

no data available

Known distribution to environmental compartments

no data available

12.5 Results of PBT and vPvB assessment

Tributyl tetradecyl phosphonium chloride

This substance is not considered to be persistent, bioaccumulating, and toxic (PBT).
 This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects**Ecotoxicity assessment****Acute aquatic toxicity**

Tributyl tetradecyl phosphonium chloride

Very toxic to aquatic life.

Chronic aquatic toxicity

Tributyl tetradecyl phosphonium chloride

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal*****Prohibition***

- Do not discharge directly into the environment.
- Do not dispose of with domestic refuse.
- Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
- Dispose of as hazardous waste in compliance with local and national regulations.

Advice on cleaning and disposal of packaging

- Empty the packaging completely prior to disposal.
- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of as hazardous waste in compliance with local and national regulations.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification.

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

DOT

14.1 UN number	UN 2922
14.2 Proper shipping name	CORROSIVE LIQUIDS, TOXIC, N.O.S. (Tributyl(tetradecyl)phosphonium chloride)
14.3 Transport hazard class	8
Subsidiary hazard class	6.1
Label(s)	8 (6.1)
14.4 Packing group	
Packing group	II
ERG No	154

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14.5 Environmental hazards
Marine pollutant

YES
Marine Pollutant (Tributyl(tetradecyl)phosphonium chloride)

TDG**14.1 UN number**

UN 2922

14.2 Proper shipping name

CORROSIVE LIQUID, TOXIC, N.O.S. (Tributyl(tetradecyl)phosphonium chloride)

14.3 Transport hazard class

8

Subsidiary hazard class

6.1

Label(s)

8 (6.1)

14.4 Packing group

Packing group

II

ERG No

154

14.5 Environmental hazards
Marine pollutant

YES
Marine Pollutant (Tributyl(tetradecyl)phosphonium chloride)

NOM

no data available

IMDG**14.1 UN number**

UN 2922

14.2 Proper shipping name

CORROSIVE LIQUID, TOXIC, N.O.S. (Tributyl(tetradecyl)phosphonium chloride)

14.3 Transport hazard class

8

Subsidiary hazard class

6.1

Label(s)

8 (6.1)

14.4 Packing group

Packing group

II

14.5 Environmental hazards**Marine pollutant**

YES

14.6 Special precautions for user

EmS

F-A , S-B

For personal protection see section 8.

IATA

14.1 UN number	UN 2922
14.2 Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (Tributyl(tetradecyl)phosphonium chloride)
14.3 Transport hazard class	8
Subsidiary hazard class:	6.1
Label(s):	8 (6.1)
14.4 Packing group	II
Packing instruction (cargo aircraft)	855
Max net qty / pkg	30.00 L
Packing instruction (passenger aircraft)	851
Max net qty / pkg	1.00 L
14.5 Environmental hazards	YES
14.6 Special precautions for user	
For personal protection see section 8.	

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information**15.1 Notification status**

Inventory Information	Status
United States TSCA Inventory	- One or more components not listed on inventory - This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- One or more components not listed on inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- One or more components not listed on inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory

Additional Information

Version : 1.0



- This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

15.2 Federal Regulations

US. EPA EPCRA SARA Title III

Section 313 Toxic Chemicals (40 CFR 372.65)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)

This material does not contain any components with a section 302 EHS TPQ.

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)

This material does not contain any components with a SARA 302 RQ.

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)

This material does not contain any components with a section 304 EHS RQ.

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

This material does not contain any components with a CERCLA RQ.

US. TSCA Section 12(b) Export Notification (40 CFR 707)

TSCA - 5(a) Significant New Use Rule List of Chemicals

Ingredients	CAS-No.
Tributyl tetradecyl phosphonium chloride	81741-28-8

US. TSCA Section 12(b) Export Notification (40 CFR 707)

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

Ingredients	CAS-No.
Tributyl tetradecyl phosphonium chloride	81741-28-8

15.3 State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16: Other information

NFPA (National Fire Protection Association) - Classification

Health	3 serious
Flammability	1 slight
Instability or Reactivity	0 minimal

HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

Health	3 serious
Flammability	1 slight
Reactivity	0 minimal
PPE	Determined by User; dependent on local conditions

Date Prepared: 04/18/2023

- ACGIH American Conference of Governmental Industrial Hygienists
- OSHA Occupational Safety and Health Administration
- NTP National Toxicology Program
- IARC International Agency for Research on Cancer
- NIOSH National Institute for Occupational Safety and Health

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.