

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

Tris(2-ethylhexyl) Phosphate P1022

TCI AMERICA

SAFETY DATA SHEET

For laboratory research purposes. Not for drug or household use.

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:	
WHMIS 2015:	

Signal word:

Hazard Statement(s):

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Warning!

None.

Causes skin irritation Causes serious eye irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Hazards not otherwise classified: [HNOC]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:
Components:
Percent:
CAS RN:
Molecular Weight:
Chemical Formula:
Synonyms:

Substance Tris(2-ethylhexyl) Phosphate >98.0%(GC) 78-42-2 434.64 C₂₄H₅₁O₄P Phosphoric Acid Trioctyl Ester , Phosphoric Acid Tris(2-ethylhexyl) Ester , Trioctyl Phosphate

4. FIRST-AID MEASURES				
Description of first aid measures				
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical			
	advice/attention if you feel unwell.			
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. It skin irritation or rash occurs: Get medical advice/attention.			
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.			
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.			
Symptoms/effects:				
Acute:	Redness.			
Delayed:	No data available			
ndication of any immediate medical atte	ention:			
Not available. Notes to physician:				
No data available				
5. FIRE-FIGHTING MEASURES				
	Dr. skanial fram askan distide			
Suitable extinguishing media: Jnsuitable extinguishing media:	Dry chemical, foam, carbon dioxide. Water (It may scatter and spread fire.)			
insultable extinguishing media:	water (it may scatter and spread file.)			
lazardous combustion products:	These products include: Carbon oxides Phosphates			
Other specific hazards:	Closed containers may explode from heat of a fire.			
Advice for firefighters:	Wear self-contained breathing apparatus if possible.			
6. ACCIDENTAL RELEASE MEASU	RES			
Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping of etc.			
Environmental precautions:	Prevent product from entering drains.			
Methods and materials for containment and cleaning up:				
7. HANDLING AND STORAGE				
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent			
	generation of vapour or mist. Wash hands and face thoroughly after handling.			
	Use a ventilation, local exhaust if vapour or aerosol will be generated.			
conditions for safe storage, including a	Avoid contact with skin, eyes and clothing.			
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.			
otorage contaitions.	Store away from incompatible materials such as oxidizing agents.			
Packaging material:	Comply with laws.			
3. EXPOSURE CONTROLS / PERSC	NAL PROTECTION			
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.			
Personal protective equipment				

r ersenar proteotive equipment	
Respiratory protection:	Vapor respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Almost colorless Odorless No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available 215°C /0.5kPa (419°F) No data available 0.93 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 15 No data available No data available
Flash point: Flammability(solid, gas):	204°C (399°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	370°C (698°F) No data available No data available
Solubility(ies): [Water] [Other solvents] Soluble:	Insoluble (0.6mg/L, 24°C) Ether, Alcohols, Acetone		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents Carbon monoxide, carbon dioxide etc

11. TOXICOLOGICAL INFORMATION

RTECS Number: MP0770000

Acute Toxicity: ihl-gpg LC50:450 mg/m³/30M orl-rat LD50:37 g/kg

Skin corrosion/irritation: skn-rbt 250 mg MOD

Serious eye damage/irritation: eye-rbt 500 mg MLD

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: mtr-mus-fbr 0.1 mg/L/21D (-S9)

Carcinogenicity: orl-mus TDLo:257.5 g/kg/103W-I

orl-rat TDLo:1030 g/kg/103W-I

orl-mus LD50:12800 mg/kg

skn-rbt LD50:20 g/kg

IARC: No data available

NTP:

No data available

OSHA: No data available

Reproductive toxicity: No data available

Target organ(s):

No data available

TCI AMERICA

12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish: Crustacea: Algae:	48h LC50:>500 ppm (Oryzias latipes) 96h LC50:>40 mg/L (Oryzias latipes) 48h EC50:>40 mg/L (Daphnia magna) 72h EC50:>40 mg/L (Selenastrum capricornutum)
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	0% (by BOD) , 7% (by GC) 2.4 - 6.5 (conc. 2 ppm) , 9.2 - 22 (conc. 0.2 ppm)
Log Pow:	4.23
Soil adsorption (Koc):	3.5 x 10 ⁶
Henry's Law (PaM ³/mol):	8.0 x 10 ⁻³
13. DISPOSAL CONSIDERATIONS	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION	
DOT (US)	Non-hazardous for transportation.
IATA	Non-hazardous for transportation.
IMDG	Non-hazardous for transportation.

3 1 0

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regul CERCLA Hazardo SARA 313: SARA 302:	<u>ations</u> ous substance and Rep	ortable Quantity: Not Listed Not Listed	
State Regulations State Right-to-Kn Massachuset New Jersey Pennsylvania California Propos	ow ts	Not Listed Not Listed Not Listed Not Listed	
Other Information NFPA Rating: Health: Flammability: Instability:	1 0		HMIS Classification: Health: Flammability: Physical:
International Inve Canada: DSL EC-No:	ntories_	On DSL 201-116-6	

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.