

Safety Data Sheet

SECTION 1: Identification

Product Name	Tributyl Phosphate, 98.5%+	
Product Code	C2341500	
Other Identifiers	Tri-n-butyl Phosphate; Butyl Phosphate	
Recommended Uses	General use.	
Uses Advised Against	Not intended for drug, food or household use.	
Address	3825 Parrott Drive Charlotte, NC 28214 USA	24-Hour Emergency Telephone CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1 + 730-527-3887
Email	orders@reagents.com	
Fax	1-888-843-4384	
Telephone	1-800-732-8484	
Website	www.reagents.com	

SECTION 2: Hazard(s) Identification

Skin corrosion/irritation (Category 3)

Hazardous to the aquatic environment, short-term (Category Acute 3)

Hazards not otherwise classified or covered by GHS

None identified.

Signal Word

Warning

Hazard Statements

Causes mild skin irritation. Harmful to aquatic life.

Precautionary Statements

IF skin irritation occurs: Get medical help. Avoid release to the environment. Dispose of contents/container in accordance with local, state, federal and international regulations.

SECTION 3: Composition / Information on Ingredients

Component Name	Component Number CAS	Component Number EC	Component Weight %
Tributyl Phosphate	126-73-8	204-800-2	100

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SECTION 4: First-Aid Measures

General Advice	Show this SDS to attending physician if medical treatment is needed.
Skin Contact	Immediately wash affected area with soap and water while removing contaminated clothing . Seek medical attention if there is any evidence of skin damage or persistent irritation.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If irritation persists, seek medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult or labored, seek medical attention.
Ingestion	Rinse mouth. Seek medical attention if feeling unwell.
Symptoms/effects	The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.
Treatment	Treat symptomatically.

SECTION 5: Fire-Fighting Measures

Extinguishing Media	Substance is not flammable, use agent most appropriate to extinguish surrounding fire (water, carbon dioxide, dry chemical, sand/earth, foam).
Specific Hazards	Thermal decomposition may produce toxic or irritating fumes.
Actions for Firefighters	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6: Accidental Release Measures

Precautions and Procedures	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental Precautions	As with any chemical, avoid release to the environment for the responsible stewardship of our planet.
Containment and Clean Up	Contain and absorb with inert absorbent material or vacuum up spillage; collect in suitable lidded container for disposal.

Section 7: Handling and Storage

Handling	Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling chemical substances. As a general practice, wear gloves and eye protection when handling chemical substances.
Storage	Keep containers tightly closed in a cool, dry and well-ventilated place. Protect from freezing and physical damage. Store separately from incompatible materials.

Section 8: Exposure Controls / Personal Protection

Engineering Controls	As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits.
Exposure Limits	Tributyl phosphate PEL-TWA 5 mg/m ³ US-OSHA
Exposure Limits	Tributyl phosphate REL-TWA 0.2 ppm US-NIOSH
Exposure Limits	Tributyl phosphate TLV-TWA 5 mg/m ³ US-ACGIH
Eye Protection	Wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.
Skin Protection	As a general practice, wear chemical resistant gloves when handling chemical substances.
Respiratory Protection	Where exposure limits are exceeded and cannot be adequately controlled by other engineering means (such as a chemical fume hood), wear respiratory protection.

Section 9: Physical and Chemical Properties

Physical State	Liquid
Appearance/Color	Colorless to slightly yellow
Odor	Odorless
Odor Threshold	Not applicable.
Melting/Freezing Point	-80°C
Boiling Point/Range	289°C (decomposes)
Flammability	Not flammable
Flammable/Explosive Limits	Not applicable
Flash Point	146°C open cup
Auto-Ignition Temperature	410°C
Decomposition Temperature	289°C
pH	Data not available
Viscosity	3.39 cP at 25°C

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Solubility (in water)	0.28 g/L at 25°C
Partition Coefficient (n-octanol/water)	4
Relative Density	.98
Vapor Pressure	0.008 hPa at 20°C
Vapor Density	9.2
Evaporation Rate	Data not available
Particle Characteristics	Not applicable.

Section 10: Stability and Reactivity

Reactivity	Can attack some forms of plastics and rubbers. Reacts with warm water to produce phosphoric acid and butanol.
Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Reactions	Based on available data, no reaction hazards have been identified that would occur during normal handling and storage.
Conditions to Avoid	Avoid contact with incompatible materials.
Incompatible Materials	Strong oxidizing agents, strong bases.
Hazardous Decomposition	Thermal decomposition can produce carbon oxides, phosphorus oxides.

Section 11: Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 3000 mg/kg
Acute Toxicity - Dermal	LD50 (rabbit) >3100 mg/kg
Acute Toxicity - Inhalation	LC50 (rat) 28000 mg/m ³ /1H
Skin Corrosion/Irritation	Can cause skin irritation.
Eye Damage/Irritation	This material is not expected to cause eye damage or irritation under normal usage conditions.
Respiratory Sensitization	Not expected to cause respiratory sensitization.
Skin Sensitization	Not expected to cause skin sensitization.
Germ Cell Mutagenicity	Based on available data, this substance does not meet the criteria set forth for classification as causing germ cell mutagenicity.
Carcinogenicity	This material has not been identified as a carcinogen by IARC or NTP.
Reproductive Toxicity	Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin.
STOT Single Exposure	None known.
STOT Repeated Exposure	Repeated exposures (ingestion) may cause lesions on the bladder.
Aspiration Hazard	This substance is not considered to be an aspiration hazard.
Other Information	No additional information available.

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Section 12: Ecological Information

Toxicity Values	LC50 (Oncorhynchus mykiss) 13 mg/L/96H
Persistence/Biodegradability	Expected to biodegrade.
Bioaccumulation Potential	Not expected to bioaccumulate.
Mobility in Soil	Slight mobility, Koc (estimated) 2400.
Other Adverse Effects	None known.

Section 13: Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

Section 14: Transport Information

Proper Shipping Name, Hazard Class	NOT REGULATED.
Marine Pollutant	Not classified as a marine pollutant.

Section 15: Regulatory Information

USA TSCA	On or in compliance with the inventory.
USA SARA 302/304	Does not apply.
USA SARA 311/312	Does not apply.
USA SARA 313 (TRI)	Does not apply.
Canada DSL/NDSL	On or in compliance with DSL.
California Proposition 65	This product contains no substances on the list.

Section 16: Other Information

Acronyms	ACGIH	American Conference of Governmental Industrial Hygienists (USA)
	ATE	Acute Toxicity Estimate (calculated toxicity value)
	BCF	Bioconcentration Factor
	CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (USA)
	DOT	Department of Transportation (USA)
	DSL	Domestic Substances List (Canada)
	EHS	Extremely Hazardous Substance
	EPA	Environmental Protection Agency (United States)
	GHS	Globally Harmonized System
	IARC	International Agency for Research on Cancer
	IDLH	Immediately Dangerous to Life and Health
	OSHA	Occupational Safety and Health Administration (USA)
	PEL	Permissible Exposure Limit
	PNOR	Particulates Not Otherwise Classified
	PPE	Personal Protective Equipment
	ppb	Parts per billion
	ppm	Parts per million
	RQ	Reportable Quantity
	SARA	Superfund Amendments and Reauthorization Act (USA)
	TLV	Threshold Limit Value
	TPQ	Threshold Planning Quantity
	TRI	Toxic Release Inventory (USA)
	TSCA	Toxic Substances Control Act (USA)
	TWA	Time Weighted Average
	UN	United Nations

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