

Centre Anti-Poison pour le Québec: (800) 463-5060 Tél. (Qc): (418) 660-8666 / 800-890-8666 Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier				Product Use	
TRI-n-BUTYLE PHOSPHATE				Laboratory use	
Chemical formula				Product code	Molar weight
(CH ₃ (CH ₂) ₃ O) ₃ P(O)			TR-0163	266,32
Chemical name / Commerci TBP, Tributyl phospl		O TRIBUTYL ESTER, 1	ri-n-butyl phosp	HATE, TRIBUTYL PHOSPH	IATE (NORMAL-)
Supplier's name			Address-Street		
Laboratoire MAT		610, Adanac Street			
City		Province			
Québec		Québec			
Postal code	Internet		Phone number		
G1C 7B7 www.labmat.com		418-660-8666 / 800-890-8666			
Emergency phone	CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060		00-463-5060
Date SDS SDS Prepared by		SDS Prepared by	•	E-Mail	
9/21/2021		Laboratoire MA	ΔТ	labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Skin corrosion/irritation - Skin irritation category 2 Carcinogenicity category 2 Signal Word WARNING Hazards statements (H) H302 Harmful if swallowed. H315 Causes skin irritation. H351 Suspected of causing cancer. Precautionary statements (P) P201 Obtain special instructions before use. P202 Pool Dota thandle until all safety precautions have been read and understood. P264 Wach the areas of the body that have been in contact with the product after handling. P270 Do not cat, drink or smoke when using this product. P280 P202 Do not cat, drink or smoke when using this product. P280 P302 H P352 IF ON SKIN: Wash with plenty of scap and water. P308 + P313 IF exposed or concerned: Get medical advice/attention. P302 + P352 IF ON SKIN: Wash with plenty of scap and water. P308 + P313 IF scapes of concerned: Get medical advice/attention. P321 Specific treatment (see section 4 of the SDS and on this label). P330 Rinse mouth. P332 + P313 IF skin irritation occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. PICTOGRAMS PI212 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	Classification WHIMS / GHS	Acute toxicity - Oral category 4			
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Reactivity 0		Health 3			
		Fire 1			
Special danger		Reactivity 0			
		Special danger			

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
PHOSPHATE DE TRI-n-BUTYLE	126-73-8	<=100

SECTION 04 - FIRST AID MEASURES

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, rinse the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Skin, eye and respiratory system irritation. Central nervous system stimulation. Headaches. Nausea. Dizziness. Feeling drunk. Drowsiness. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	No
Ignition conditions	t is not considered flammable, but can burn at high temperatures.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Carbon oxides. Phosphorus oxides Phosphine.
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods and materials for	Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Absorb the product with sand or
containment and cleaning up /	vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose
Personnal precautions, protective	of residues in a container for disposal of hazardous materials. When handling, wear suitable safety
equipment	equipment. Use breathing apparatus if necessary. Do not let product enter drains.

SECTION 07 - HANDLING AND STORAGE

Store in a cool, dry place. Store in a well-ventilated area. Keep container tightly closed and store away from heat, moisture, and incompatible products. Protect from light and sunlight.
Always open containers slowly to allow any excess pressure to vent. Avoid inhalation of vapor or mist. Bottle in the glass preferably.NOTE: this product attacks certain types of plastics and rubbers. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS- No.		Control parameters	Basis
Tributyl phosphate	126- 73-8			Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	0.2 ppm	Canada. British Columbia OEL
		TWAEV		Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	5mg/m3	Canada. Ontario OELs

Data source	CNESST Fisher Scientific
Ventilation	Use fan.
Respiratory	If work under the hood is not possible, or if the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Safety shoes.
Clothing	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering control	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Appearance	Liquide huileux , incolore à jaunâtre-
Odour	Âcre.
Odour threshold	Data not available
рН	Donnée non disponible.
Melting point / Freezing point	-79°C
Initial boiling point	289°C (dec)
Boiling range	Data not available
Flash point	193 °C Coupelle fermée.
Evaporation rate	Donnée non disponible-
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	36 hPa (27 mmHg) à 178°C / 9.7 hPa (7.3 mmHg) à 150 °C.
Vapour density	9.19 -(Air = 1.0)-
Relative density	0.982g/ml à 20°C
Solubility	légèrement soluble (<1mg/ml).
Partition coefficient water/n-octanol	0.0001-
Auto-ignition temperature	400-482°C
Decomposition temperature	177°C
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances.
Chemical stability	Stable under recommended storage conditions. Sensitive to light. Sensitive to heat. Moisture sensitive.
Possibility of hazardous reactions	May react violently with incompatible substances.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid excessive heat and humidity. Avoid contact with incompatible materials and extreme temperatures.
Incompatible material	Strong oxidizers, strong bases. Attacks rubber and some plastics.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Toxic vapors of carbon monoxide and carbon dioxide. Phosphorus oxides. Phosphine.

SECTION 11 - TOXICOLOGICAL INFORMATION

TRI-N-BUTYLE PHOSPHATE

Routes of exposure	Ingestion, inhalation, skin contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation.
- Skin	Irritation.
- Inhalation	Central nervous system depression. Headache, dizziness, nausea and vomiting. May cause respiratory tract irritation.
Acute toxicity (Ingestion)	Harmful if swallowed. To our knowledge, the product has not been fully studied.
Chronic exposure effects / symptoms	Depression of the central nervous system. Some sources indicate that the product is carcinogenic. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Rat - male and female - 1,552 mg/kg. LD50 Dermal - Rabbit - >5000 mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 4 mg/I

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: CL50 - Carassius auratus (Gold fish) - 8.8 mg/l - 96 h. Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 3.6 mg/l - 48 h. Toxicity to algae: EC50 - Desmodesmus subspicatus (green algae) - 1.1 mg/l - 72 h.	
Persistence and degradability	Biodegradability aerobic Result: 89 % - Readily biodegradable.	
Bioaccumulative potential	Bioaccumulation Oryzias latipes - 38 d Bioconcentration factor (BCF): 21 - 35.	
Mobility in soil	Data not available.	
Other adverse effects	Harmful to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	

SECTION 13 - DISPOSAL CONSIDERATIONS

	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

SECTION 15 - REGULATORY INFORMATION

Acute toxicity - Oral category 4 Skin corrosion/irritation - Skin irritation category 2 Carcinogenicity category 2

SECTION 16 - OTHER INFORMATION

Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Last Update: 9/21/2021