

From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865



24 Hour Emergency Telephone: 908-859-2151 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. And Canada Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance

Trioctylphosphine Oxide

1. Product Identification

Synonyms: TOPO **CAS No.:** 78-50-2

Molecular Weight: 386.65

Chemical Formula: [CH3 (CH2) 7] 3P0

Product Codes: X005

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Trioctylphosphine Oxide	78-50-2	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

CAUTION! CAUSES IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

 $\textbf{SAF-T-DATA}^{\,(\textbf{tm})} \text{ Ratings (Provided here for your convenience)}$

Health Rating: 2 - Moderate Flammability Rating: 1 - Slight Reactivity Rating: 1 - Slight Contact Rating: 2 - Moderate (Life)

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

Irritation of upper respiratory tract.

Ingestion:

None identified.

Skin Contact:

Irritation, May be absorbed through the skin with possible systemic effects.

Eye Contact: Irritation.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

In case of contact, flush skin with water.

Eye Contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

5. Fire Fighting Measures

Fire:

Flash point: 252C (486F) 0C

Explosion:

No information found.

Fire Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Special Information:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

6. Accidental Release Measures

Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

7. Handling and Storage

Keep container tightly closed. Suitable for any general chemical storage area. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent and engineering controls are not feasble, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

White crystalline solid.

Odor:

Light odor.

Solubility:

Negligible (< 0.1%)

Specific Gravity:

No information found.

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

No information found.

Melting Point:
52C (126F)

Vapor Density (Air=1):
13.3

Vapor Pressure (mm Hg):
0.9 @ 20C (68F)

Evaporation Rate (BuAc=1):
No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Oxides of phosphorus, carbon monoxide, carbon dioxide.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizing agents.

Conditions to Avoid:

No information found.

11. Toxicological Information

\Cancer Lists\				
	NTP Carcinogen			
Ingredient	Known	Anticipated	IARC Category	
Trioctylphosphine Oxide (78-50-2)	No	No	None	

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

\Chemical Inventory Status - Part Ingredient	1\	TSCA			Australia	
Trioctylphosphine Oxide (78-50-2)		Yes	Yes	Yes	Yes	
\Chemical Inventory Status - Part 2\						
Ingredient		Korea	DSL	NDSL	Phil.	
Trioctylphosphine Oxide (78-50-2)		Yes	Yes	No	Yes	
\Federal, State & International Regulations - Part 1\						
Ingredient	RQ				mical Catg.	
Trioctylphosphine Oxide (78-50-2)	No	No	No		No	
\Federal, State & International Regulations - Part 2\						
Ingredient	CERCL			-	(d)	

Trioctylphosphine Oxide (78-50-2)

TSCA 12(b): No CDTA: No Chemical Weapons Convention: No SARA 311/312: Acute: Yes Chronic Reactivity: No (Pure / Solid) Chronic: Yes Fire: No Pressure: No

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 1

Label Hazard Warning:

CAUTION! CAUSES IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

Label Precautions:

Avoid contact with eyes, skin, clothing.

Avoid breathing dust. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after

handling.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

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