

## Material Safety Data Sheet

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### 1. Identification of the substance/mixture and of the company/undertaking

**Product name:** TRIOCTYLPHOSPHATE

**Product code:** 10011398

**Supplier:** Carestream Health, Inc., 150 Verona Street, Rochester, New York 14608; Carestream Health Canada Company, 6 Monogram Place, Suite 200, Toronto, Ontario, M9R 0A1

For Emergency Health Information call, (800) 424-9300

For other information contact 800-328-2910.

**Synonyms:** None.

### 2. Hazards identification

**CAUTION!**

**LOW PHYSICAL HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING  
CAUSES SKIN IRRITATION**

**HMIS II Hazard Ratings:**

Health - 2, Flammability - 1, Reactivity (Stability) - 0

**NFPA Hazard Ratings:**

Health - 2, Flammability - 1, Instability - 0

NOTE: HMIS II and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. An asterisk (\*), in the HMIS II health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

### 3. Composition/information on ingredients

Weight %	Components (CAS-No.)
100	Tris(2-ethylhexyl) phosphate (78-42-2)

### 4. First aid measures

**Inhalation:** If symptomatic, move to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

**Eyes:** Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

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**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

**Ingestion:** Drink 1 or 2 glasses of water. Get medical attention. Never give anything by mouth to an unconscious person.

### 5. Fire-fighting measures

**Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

**Hazardous Combustion Products:** Carbon oxides (see also Hazardous Decomposition Products section).

**Unusual Fire and Explosion Hazards:** None.

### 6. Accidental release measures

**Methods for cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

### 7. Handling and storage

**Personal precautions:** Avoid prolonged or repeated breathing of mist or vapour. Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** Keep from contact with oxidizing materials.

**Storage:** Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

### 8. Exposure controls / personal protection

**Occupational exposure controls:** Not established

**Ventilation:** Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

**Respiratory protection:** If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. Respirator type: N95 Particulate Filter. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29CFR 1910.134 and 29CFR1910.1048.

**Eye protection:** It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

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**Skin and body protection:** Wear impervious gloves and protective clothing appropriate for the risk of exposure.

**Recommended Decontamination Facilities:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

### 9. Physical and Chemical Properties

**Physical form:** liquid

**Colour:** clear

**Odour:** slight, pungent

**Specific gravity:** No data available

**Vapour pressure:** No data available

**Vapor density (air = 1):** No data available

**Volatile fraction by weight:** No data available

**Boiling point/range:** 285.0 °C (545.0 °F)

**Melting point/range:** -74.0 °C (-101.2 °F)

**Water solubility:** negligible

**pH:** not applicable

**Flash point:** 171.1 °C (340.0 °F) (Setaflash closed cup)

### 10. Stability and reactivity

**Stability:** Stable  
No exotherm to boiling.

**Incompatibility:** Strong oxidizing agents.

**Hazardous decomposition products:** oxides of phosphorus.

**Hazardous Polymerization:** Hazardous polymerisation does not occur.

### 11. Toxicological information

#### Effects of Exposure

**Inhalation:** Expected to be a low hazard for recommended handling.

**Eyes:** No specific hazard known. May cause transient irritation.

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**Skin:** Causes irritation.

**Ingestion:** Expected to be a low hazard for recommended handling.

### Acute Toxicity Data:

- Oral LD50 (rat): 37 g/kg
- Dermal LD50: 20 g/kg
- Skin irritation: moderate
- Eye irritation: none

## 12. Ecological information

Data for this material and chemically similar materials were used to estimate the environmental impact of this material.

Potential Toxicity:

Fish LC50:	> aqueous solubility
Daphnid EC50:	< 1 mg/l
Algal IC50:	Not available
Waste treatment organisms EC50:	> 100 mg/l
Organics Readily Degradable:	Not readily biodegradable.
Potential Bioaccumulation:	log Pow 9.49
COD (approximate):	Not available
BOD (approximate):	Not available

## 13. Disposal considerations

Discharge, treatment, or disposal is subject to national, state, provincial, or municipal laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

Not regulated for all modes of transportation.

For more transportation information, go to: <http://ship.carestreamhealth.com>.

## 15. Regulatory information

**U.S. California Prop. 65:** none

**Carcinogenicity Classification (components present at 0.1% or more):**

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International Agency for Research on Cancer (IARC): none  
American Conference of Governmental Industrial Hygienists (ACGIH): none  
U.S. National Toxicology Program (NTP): none  
U.S. Occupational Safety and Health Administration (OSHA): none

**Chemical(s) subject to the reporting requirements of U.S. Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:**  
none

### 16. Other information

#### US/Canadian Label Statements:

**CAUTION!**  
**LOW PHYSICAL HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING**  
**CAUSES SKIN IRRITATION**

Avoid prolonged or repeated breathing of mist or vapour.  
Avoid contact with eyes, skin, and clothing.  
Ensure adequate ventilation.  
Wash thoroughly after handling.

**FIRST AID:** In case of skin contact, immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Keep out of reach of children.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

Since emptied containers retain product residue, follow label warnings even after container is emptied.

**IN CASE OF FIRE:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

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R-1, S-2, F-1, C-0