







# Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing
	CLASS E: Corrosive solid.	  

## Section 1. Product and Company Identification

<b>Product Name / Trade name</b>	<b>Trisodium phosphate</b>	<b>Associated Product's Item Code</b>	<b>12-117EXP</b>
<b>Synonym</b>	Trisodium phosphate dodecahydrate, TSP	<b>CAS #</b>	10101-89-0
<b>Chemical Family</b>	Phosphate salt.	<b>DSL</b>	CEPA DSL: Trisodium phosphate
<b>Chemical Formula</b>	NA <sub>3</sub> PO <sub>4</sub> ·12H <sub>2</sub> O	<b>Validation Date</b>	31/05/2001.
<b>Manufacturer</b>	Recochem Inc. 850 Montee de Liesse Montreal, Quebec 514-341-3550	<b>Print Date</b>	28/06/2001.
<b>Material Uses</b>	Consumer products: Cleaning compound.	<b>In Case of Emergency</b>	Recochem Inc. Communications and Regulatory Affairs Department (905) 791-1788

## Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	Exposure Limits	
			Canadian Values (ACGIH)	U.S. Values (OSHA)
1) Trisodium phosphate	10101-89-0	100	TWA: 10 mg/m <sup>3</sup> from ACGIH (Canada, 1999). Period: 8 hour(s).	<sup>1)</sup> TWA: 10 mg/m <sup>3</sup> from OSHA (United States, 1999). Period: 8 hour(s). <small>Trisodium phosphate</small>

## Section 3. Emergency Overview

<b>Hazard Overview</b>	CAUTION CORROSIVE. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. Do not get in eyes, on skin or on clothing. DO NOT ingest. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Potential Acute Health Effects</b>	Very dangerous in case of skin contact (corrosive, irritant), of eye contact (corrosive, irritant), of ingestion. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching. Skin contact can produce inflammation and blistering. Skin inflammation is characterized by itching, scaling, reddening or occasionally, blistering. Dust may cause irritation to upper respiratory tract.
<b>Note to Physician</b>	Not available.

## Section 4. First Aid Measures

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. COLD water may be used. Get medical attention immediately.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. If irritation persists, seek medical attention.
<b>Inhalation</b>	Allow the victim to rest in a well ventilated area. If irritation persists, seek medical attention.
<b>Ingestion</b>	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. If irritation persists, seek medical attention.

## Section 5. Fire Fighting Measures

<b>Products of Combustion</b>	Not applicable.
<b>Fire Fighting Media and Instructions</b>	Not applicable.
<b>Fire Hazards</b>	No additional remark.
<b>Explosion Hazards</b>	No additional remark.



### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
<b>Large Spill and Leak</b>	Corrosive solid. Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

### Section 7. Handling and Storage

<b>Handling</b>	Corrosive solid. DO NOT ingest. Do not breathe dust. Keep container closed. Wash thoroughly after handling.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

### Section 8. Exposure Controls, Personal Protection

<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection</b>	
<b>Eyes</b>	Safety glasses.
<b>Body</b>	No special protective clothing is required.
<b>Respiratory</b>	Dust respirator. Wear appropriate respirator when ventilation is inadequate.
<b>Hands</b>	Gloves (impervious).

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Granular solid.	<b>Odor</b>	Not available.
<b>Molecular Weight</b>	380.13 g/mole	<b>Taste</b>	Not available.
<b>pH (1% Soln/Water)</b>	11.9 [Basic.]	<b>Color</b>	White.
<b>Boiling/Condensation Point</b>	Not available.	<b>Volatility</b>	Not available.
<b>Melting/Freezing Point</b>	73 to 77°C (163.4 to 170.6°F)	<b>Evaporation Rate</b>	Not available.
<b>Specific Gravity</b>	1.62 (Water = 1)	<b>Odor Threshold</b>	Not available.
<b>Vapor Pressure</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Vapor Density</b>	Not available.	<b>Solubility</b>	Soluble in cold water. Insoluble in methanol.
<b>VOC Content</b>	Not available.	<b>Other Properties</b>	Not available.

<b>The Product is:</b>	Non-flammable.
<b>Autoignition Temperature</b>	Not applicable.
<b>Flash Points</b>	Not applicable.
<b>Flammable Limits</b>	Not applicable.
<b>Fire Hazards in Presence of Various Substances</b>	Not applicable.

### Section 10. Stability and Reactivity

<b>Stability</b>	The product is stable.
<b>Conditions of Instability</b>	No additional remark.
<b>Incompatibility with Various Substances</b>	Reactive with metals, acids.

### Section 11. Toxicological Information

<b>Routes of Entry</b>	Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 7400 mg/kg [Rat].
<b>Acute Effects on Humans</b>	
<b>Eyes</b>	Very hazardous in case of eye contact (irritant, corrosive). Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching.
<b>Skin</b>	Very dangerous in case of skin contact (corrosive, irritant). The amount of tissue damage depends on length of contact. Skin contact can produce inflammation and blistering. Skin contact may produce burns.
<b>Inhalation</b>	Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Over-exposure by inhalation may cause respiratory irritation.
<b>Ingestion</b>	Very dangerous in case of ingestion. May cause burns to mouth, throat and stomach.
<b>Chronic Effects on Humans</b>	<p><b>CARCINOGENIC EFFECTS:</b> Not available.</p> <p><b>MUTAGENIC EFFECTS:</b> Not available.</p> <p><b>TERATOGENIC EFFECTS:</b> Not available.</p> <p><b>DEVELOPMENTAL TOXICITY:</b> Not available.</p> <p>Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.</p>



### Section 12. Ecological Information

<b>Ecotoxicity</b>	Not available.
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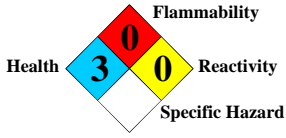
### Section 13. Disposal Considerations

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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### Section 14. Transport Information

<b>TDG Classification (Canada)</b>	Class 9.2: Environmentally hazardous material.	
<b>PIN (Canada)</b>	Shipping name: Sodium phosphate, tribasic UNNA: NA 9148 PG: III	
<b>Special Provisions for Transport (Canada)</b>	Regulated Quantity (RQ)= 230 kg (506 lbs) In containers of 230 kg capacity or less this product is exempt from TDG regulations (non regulated).	
<b>IMDG Classification</b>	Not available.	
<b>PIN</b>	Not regulated.	
<b>Marine Pollutant</b>	Not pollutant.	
<b>DOT Classification (U.S.A)</b>	Not regulated.	
<b>PIN</b>	Not available.	
<b>Special Provisions for Transport (U.S.)</b>	Regulated Quantity (RQ)= 5000 lbs (2268 kg)	

### Section 15. Other Regulatory Information and Pictograms

<b>WHMIS Classification (Canada)</b>	CLASS E: Corrosive solid.									
<b>HCS Classification (U.S.A.)</b>	CLASS: Corrosive material									
<b>USA Regulatory Lists</b>	TSCA inventory: Trisodium phosphate									
<b>Hazardous Material Information System (U.S.A.)</b>	<table border="1"> <tr> <td>Health</td> <td>3</td> </tr> <tr> <td>Flammability</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Personal Protection</td> <td>E</td> </tr> </table>	Health	3	Flammability	0	Reactivity	0	Personal Protection	E	<p><b>National Fire Protection Association (U.S.A.)</b></p>  <p>Health: 3, Flammability: 0, Reactivity: 0, Specific Hazard: 0</p>
Health	3									
Flammability	0									
Reactivity	0									
Personal Protection	E									

**Section 16. Other Information**

Validated and verified by Product Development and Technical Coordinator on 31/05/2001.

Printed 28/06/2001.

**Notice to Reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its 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 materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*