



(11156)

# Material Safety Data Sheet

<b>WHMIS (Pictograms)</b>	<b>WHMIS (Classification)</b>	<b>Personal protective equipment</b>
	Class D-2B: Material causing other toxic effects (Toxic).	

<b>Section 1. Product and Company Identification</b>			
<b>Product name / Trade name</b>	Trisodium Phosphate	<b>Associated Product's Item Code</b>	12-116EXP
<b>Synonym</b>	Trisodium phosphate dodecahydrate, TSP	<b>CAS #</b>	10101-89-0
<b>Chemical family</b>	Phosphate salt.	<b>Validation date</b>	Jan. 08 2013
<b>Chemical formula</b>	Na <sub>3</sub> PO <sub>4</sub> ·12H <sub>2</sub> O	<b>Print date</b>	Jan. 09 2013
<b>Manufacturer/Supplier</b>	Recochem Inc. 850 Montee de Liesse Montreal, Quebec 514-341-3550	<b>In case of emergency</b>	Recochem Inc. Communications and Regulatory Affairs Department (905) 878-5544
<b>Material uses</b>	Consumer products: Cleaning compound.		

<b>Section 2. Hazards identification</b>	
<b>Emergency Overview</b>	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
<b>Potential Acute Health Effects</b>	See section 11 for more detailed information on health effects and symptoms.  Very hazardous by the following route of exposure: of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering and itching. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.
<b>Note to Physician</b>	Not available.

<b>Section 3. Composition, information on ingredients</b>			
<b>Canada</b>			
<b>Name</b>		<b>CAS number</b>	<b>Conc. (% w/w)</b>
Trisodium phosphate dodecahydrate		10101-89-0	100
There are no other ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.			

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**APPROVED MATERIAL**

JUN 20 2013

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**Section 4. First aid measures**

<b>Eye contact</b>	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 30 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
<b>Skin contact</b>	In case of contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
<b>Inhalation</b>	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
<b>Ingestion</b>	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
<b>Notes to physician</b>	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Section 5. Fire-fighting measures**

<b>Products of combustion</b>	Decomposition products may include the following materials: nitrogen oxides phosphorus oxides
<b>Fire-fighting media and instructions</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Fire Hazards</b>	Not available.
<b>Explosion Hazards</b>	Not available.

**Section 6. Accidental release measures**

<b>Small spill and leak</b>	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
<b>Large spill and leak</b>	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

**Section 7. Handling and Storage**

<b>Handling</b>	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
<b>Storage</b>	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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**Section 8. Exposure controls/personal protection**

**Engineering controls** No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protection**

**Eyes** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: safety glasses with side-shields

**Body** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: disposable particulate mask  
Not recommended:

**Hands** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): nitrile rubber

**United States****Product name****Exposure limits**

Trisodium phosphate dodecahydrate

**OSHA (United States, 2003).**  
TWA: 10 mg/m<sup>3</sup> 8 hour(s).

**Canada****Occupational exposure limits**

No exposure limit value known.

**Section 9. Physical and chemical properties**

<b>Physical State and Appearance</b>	Granular solid.	<b>Odour</b>	Odorless.
<b>Molecular weight</b>	380.13 g/mole	<b>Taste</b>	Not available.
<b>pH</b>	11.7 [Conc. (% w/w): 1%]	<b>Colour</b>	White.
<b>Boiling/condensation point</b>	Not available.	<b>Volatility</b>	Not available.
<b>Melting/freezing point</b>	75°C (167°F)	<b>Evaporation rate</b>	Not available.
<b>Relative density</b>	Not available.	<b>Odour Threshold</b>	Not available.

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<b>Vapor pressure</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Vapour Density</b>	Not available.	<b>Solubility</b>	Soluble in the following materials: cold water. Insoluble in the following materials: methanol.
<b>VOC content</b>	0 % (w/w)	<b>Other Properties</b>	Not available.
<b>The product is:</b>	Non-flammable.		
<b>Auto-ignition temperature</b>	Not available.		
<b>Flash point</b>	Not available.		
<b>Flammable limits</b>	Not available.		
<b>Fire hazards in the presence of various substances</b>	Not available.		

### Section 10. Stability and reactivity

<b>Stability</b>	The product is stable.
<b>Conditions of instability</b>	Not available.
<b>Incompatibility with various substances</b>	Reactive or incompatible with the following materials: metals and acids. Incompatible with zinc and aluminum. Avoid contamination with reactive substances.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological Information

<b>Canada</b>					
<b>Acute toxicity</b>					
Trisodium phosphate dodecahydrate	LD50 Dermal	Rabbit	>7940 mg/kg	-	
	LD50 Oral	Rat	7400 mg/kg	-	
<b>Conclusion/Summary</b>	Not available.				
<b>Chronic toxicity</b>					
<b>Conclusion/Summary</b>	Not available.				
<b>Carcinogenicity</b>					
<b>Conclusion/Summary</b>	No additional remark.				
<b>Mutagenicity</b>					
<b>Conclusion/Summary</b>	: Not available.				
<b>Teratogenicity</b>					
<b>Conclusion/Summary</b>	: Not available.				
<b>Reproductive Toxicity</b>					

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**Conclusion/Summary** : Not available.

### Section 12. Ecological information

For accidental discharges into the environment, see Section 6: "Accidental Release Measures" for suggested instructions.

**Ecotoxicity** : No known significant effects or critical hazards.

#### Canada

##### Aquatic ecotoxicity

**Conclusion/Summary** : Not available.

##### Biodegradability

**Conclusion/Summary** : Not available.

### Section 13. Disposal considerations

**Waste information** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

### Section 14. Transport information

#### Canada TDG Classification

**Class** \_\_\_\_\_ Not a TDG-controlled material.

**Subsidiary class** \_\_\_\_\_

**Proper Shipping Name (Canada) TDG** \_\_\_\_\_

**UN number** \_\_\_\_\_

**Packing Group** \_\_\_\_\_

**Special provisions** \_\_\_\_\_

#### IMDG Classification

**Class** \_\_\_\_\_ Not controlled under IMDG.

**Subsidiary class** \_\_\_\_\_

**Proper Shipping Name IMDG** \_\_\_\_\_

**UN number** \_\_\_\_\_

No placard (labeling and hazard labels) required



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<b>Packing Group</b>	.	No placard (handling and hazard label) required
<b>Marine pollutant</b>	Not a pollutant.	
<b>Special provisions</b>	.	
<b>United States DOT (Classification)</b>		No placard (handling and hazard label) required
<b>Class</b>	. Not a DOT controlled material (United States).	
<b>Subsidiary class</b>	.	
<b>Proper Shipping Name (United States) DOT</b>	.	
<b>UN number</b>	.	
<b>Packing Group</b>	.	
<b>Special provisions</b>	Reportable quantity Sodium phosphate, tribasic 5000 lbs. (2270 kg)	
<b>International Air Transport Association (IATA)</b>	For air shipment classification and associated regulations, please refer to the latest edition of IATA Dangerous Goods Regulations.	

**Section 15. Regulatory information**

<b>WHMIS Classification (Canada)</b>	Class D-2B: Material causing other toxic effects (Toxic).									
<b>Canada Domestic Substances List (DSL) Status</b>	This product and/ or all of its components are on the DSL.									
<b>HCS Classification (U.S.A.)</b>	Not regulated.									
<b>U.S.A. Regulatory Lists</b>	This product and/ or all of its components are on the TSCA inventory list.									
<b>Hazardous Material Information System (U.S.A.)</b>	<table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Flammability</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> <tr> <td>Personal protection</td> <td>E</td> </tr> </table>	Health	1	Flammability	0	Reactivity	1	Personal protection	E	<b>National Fire Protection Association (U.S.A.)</b>  Health      Flammability 1      0      1      Reactivity Specific hazard
Health	1									
Flammability	0									
Reactivity	1									
Personal protection	E									

**Section 16. Other information**

Validated and verified by Compliance and Technical Information Manager 905-878-5544.	Jan. 08 2013	ph.#	Printed Jan. 09 2013
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**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.

**MSDS are available at [www.recochem.com](http://www.recochem.com)**