

### **Section 01 Identification**

Product Identifier Trisodium Phosphate Solution 5%

Other Means of Identification Sodium phosphate; trisodium orthophosphate

**Product Use and Restrictions** 

on Use

Industrial chemical, textiles, water treatment

Initial Supplier Identifier ClearTech Industries Inc

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Prepared By ClearTech Industries Inc. technical writer

**24-Hour Emergency Phone** 306.664.2522

# **Section 02 Hazard Identification**

#### **Physical Hazards**

This product does not qualify for any physical hazard class under WHMIS 2015

#### **Health Hazards**

Skin corrosion / irritation

Serious eye damage / eye Categ

irritation

Category 2
Category 2

Signal Word

Warning

#### **Hazard Statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

#### **Pictograms**



#### **Precautionary Statements**

#### **Prevention**

P264 Wash affected body parts thoroughly after handling.

P280 Wear protective gloves, eye protection

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#### Response

P303 P352 P332 IF ON SKIN (or hair): Wash with plenty of water. If skin irritation occurs: Get medical advice /

P313 P362 P364 attention. Take off contaminated clothing and wash it before reuse.

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

P337 P313 and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

#### **Hazards Not Otherwise Classified**

Not available

#### Supplemental Information

Not available

contact

### Section 03 Composition / Information on Ingredients

#### **Hazardous Ingredients:**

Chemical name Common name(s) **CAS** number Concentration (w/w%)

Phosphoric acid, trisodium salt Trisodium Phosphate 7601-54-9 ~5%

#### Section 04 First-Aid Measures

#### Description of necessary first-aid measures

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor if you feel unwell.

Ingestion Rinse mouth. Get medical advice / attention if you feel unwell or are concerned.

Skin Avoid direct contact. Wear chemical protective clothing, if necessary. Take off immediately contaminated

clothing, shoes and leather goods. Rinse skin with lukewarm, gently flowing water / shower for 15 to 20

minutes. Get medical advice / attention. Wash contaminated clothing before re-use, or discard.

Eye Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing contact

water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do.

Continue rinsing for 15 to 20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto

the face. If eye irritation persists: Get medical advice / attention.

#### Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation. Ingestion May cause discomfort or nausea.

Skin contact Causes skin irritation.

Eve contact Causes serious eye irritation.

Further information For further information see Section 11 Toxicological Information.

# Section 05 Fire Fighting Measures

Suitable extinguishing media Extinguish fire using extinguishing agents suitable for the surrounding fire.

Unsuitable extinguishing

media

Not available

the chemical

Specific hazards arising from In the event of a fire oxides of phosphorous may be released.

for fire-fighters

Special protective equipment Wear NIOSH-approved self-contained breathing apparatus and chemical-protective

clothing.

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#### Section 06 Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures Wear appropriate personal protective equipment (See Section 08 Exposure Controls and

Personal Protection). Stay upwind, ventilate area.

Environmental Precautions Prevent material from entering waterways, sewers or confined spaces. Notify local health

and wildlife officials. Notify operators of nearby water intakes.

Methods and Materials for Containment and Cleaning Up SMALL SPILLS: Stop or reduce leak if safe to do so. Clean up spill with non-reactive absorbent and place in suitable, covered, labeled containers. Flush area with water. Contaminated absorbent material may pose the same hazards as the spilled product. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

### **Section 07 Handling and Storage**

Precautions for Safe Handling Use proper equipment for lifting and transporting all containers. Use sensible industrial

hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations

that could lead to harmful exposure.

Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills

and leaks readily available.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area, out of direct sunlight, away from heat sources and

incompatible materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous

residues. Protect label and keep it visible.

**Incompatibilities** Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

# **Section 08 Exposure Controls and Personal Protection**

#### **Exposure limits**

There are no known exposure limits for this product.

#### **Engineering controls**

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by

exhaust systems.

Other A soak hose and eyewash station or emergency shower and eyewash station should be

available, tested, and be in close proximity to the product being handled in accordance with

provincial regulations.

#### Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

**Eye and face protection** Where there is potential eye or face exposure, tightly fitting chemical goggles are

recommended. Contact lenses are not recommended; they may contribute to severe eye

injury.

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Hand and body protection Disposable latex or nitrile gloves are recommended to prevent incidental contact. Butyl

rubber, neoprene, or PVC skin protection is recommended for extended contact. Leather

gloves are not recommended for chemical protection. Refer to manufacturer's

specifications for breakthrough times and permeability information; note that breakthrough times and permeability vary with temperature, application and age of material. Continued use of contaminated safety gear or clothing is not recommended; wash before reuse or

discard.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards Not available

### **Section 09 Physical and Chemical Properties**

#### **Appearance**

Physical state Liquid Colour Clear Odour Odourless Odour threshold Not applicable

Property

12.0-13.0 pН Melting point / freezing point Not available

Initial boiling point and

boiling range

Not available

Flash point Not available **Evaporation rate** Not available **Flammability** Not applicable Upper flammable limit Not available

Not available Lower flammable limit Not available Vapour pressure Not available Vapour density Relative density Not applicable Solubility Soluble in water

Partition coefficient: n-

octanol/water

Not available

Auto-ignition temperature Not available **Decomposition temperature** Not available Viscosity Not available Specific gravity 1.06 g/mL **Formula** Na<sub>3</sub>PO<sub>4</sub> 12H<sub>2</sub>O Molecular weight 163.94 g/mol

# **Section 10 Stability and Reactivity**

Reactivity Forms a basic solution when dissolved in water.

Stability This product is stable if stored according to the recommendations in Section 07.

Possibility of hazardous

reactions

Hazardous polymerization is not known to occur.

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Conditions to avoid Avoid contact with incompatible materials.

Incompatible materials Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

Hazardous decomposition

products

Thermal decomposition may produce oxides of phosphorous.

### Section 11 Toxicological Information

#### **Acute Toxicity (LD50 values)**

Component	Route	Species	Value	Exposure time
Trisodium phosphate	Oral	Rat	>2,000 mg/kg bw	
Monosodium phosphate	Inhalation	Rat	>0.83 mg/L	4 hours
Potassium pentahydrogen bis (phosphate)	Dermal	Rat	>2,000 mg/kg	

#### **Toxic Health Effect Summary**

Chemical characteristics Phosphorous and sodium are essential nutrients, and will be readily absorbed and metabolised.

Skin Causes skin irritation.

Ingestion May cause discomfort or nausea. Inhalation May cause respiratory irritation. Eve contact Causes serious eye irritation.

Sensitization This product and its components at their listed concentration have no known sensitizing effects. Mutagenicity This product and its components at their listed concentration have no known mutagenic effects. Carcinogenicity This product and its components at their listed concentration have no known carcinogenic effects. This product and its components at their listed concentration have no known reproductive effects.

Reproductive toxicity

Specific organ toxicity

This product and its components at their listed concentration have no known effects on specific

organs.

**Aspiration hazard** Not available Synergistic Not available

materials

# **Section 12 Ecological Information**

#### **Ecotoxicity**

Component	Type	Species	Value	Exposure Time
Trisodium phosphate	LC50	Freshwater fish	100 mg/L	96 hours
	NOEC	Freshwater invertebrates	100 mg/L	48 hours
	NOEC	Desmodesmus subspicatus	100 mg/L	72 hours

**Biodegradability** The domestic substance list categorizes Trisodium phosphate as persistent.

**Bioaccumulation** The domestic substance list categorizes Trisodium phosphate as non-bioaccumulative.

Mobility This product is water soluble, is not predicted to adsorb to soil and may contaminate ground

water.

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Other adverse effects Not available

## **Section 13 Disposal Considerations**

Waste From Residues / **Unused Products** 

Dispose in accordance with all federal, provincial, and local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging Do not remove label, follow label warnings even after the container is empty. Empty

containers should be recycled or disposed of at an approved waste handling facility.

# **Section 14 Transport Information**

**UN** number Not available UN proper shipping name

and description

Not available

Transport hazard class(es) Not available Packing group Not available **Excepted quantities** Not available

Not listed as a marine pollutant under Canadian TDG Regulations, schedule III. **Environmental hazards** 

Special precautions No special provisions Transport in bulk ERAP index: not available

MARPOL 73/78 and IBC Code:

This product is not listed in Chapter 17 of the IBC Code.

Secure containers (full or empty) during shipment and ensure all caps, valves, or closures Additional information

are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

### Section 15 Regulatory Information.

NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

All components of this product appear on the domestic substance list.

#### Section 16 Other Information

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Note: The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

Attention: Receiver of the chemical goods / SDS coordinator

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As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

#### References:

- 1) CHEMINFO
- 2) TOXNET
- 3) eChemPortal
- 4) ECHA
- 5) Transportation of Dangerous Goods Canada
- 6) HSDB
- 7) PAN

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