



Trisodium Phosphate TSP MSDS

Section 1.

Identification Product Identifier: Trisodium Phosphate

Other Means Of Identification: Sodium phosphate tribasic, TSP

Initial Supplier Identifier:

HD Chemicals LTD

9 Scott Business Park

PL2 2PB Plymouth

Recommended Use and Restrictions On Use:

Degreaser/cleaner. No restrictions.

Product Family: Inorganic base

Section 2.

Hazard Identification Hazard Classification:

- Health Hazards
 - Skin Corrosion/Irritation – Category 2
 - Eye Damage/Irritation – Category 2A
- **Signal Word:** Warning
- **Hazard Statement:** Causes skin irritation. Causes serious eye irritation.
- **Precautionary Prevention Statement:** Wash hands thoroughly after handling. Wear protective gloves, eye, and face protection.
- **Precautionary Response Statement:** IF ON SKIN: Wash with plenty of water. Specific Treatment: Do not induce vomiting unless directed by medical personnel. If skin irritation occurs: Seek medical attention. Remove all contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention.
- **Precautionary Storage Statement:** No statement



Section 3.

Composition / Information on Ingredients **Chemical Name:** Trisodium phosphate dodecahydrate

Common Name or Synonyms: Sodium phosphate tribasic

CAS NO. and Other Unique Identifiers: 10101-89-0

% by weight: 95-100

Section 4.

First-Aid Measures **Eye Contact:** Flush eyes with water for 15 minutes. Seek medical attention.

Skin Contact: Flush the area with water. If irritation persists, seek medical attention. Launder clothing before reuse. **Inhalation:** Remove the victim to fresh air. If there is difficulty breathing, seek immediate medical attention. **Ingestion:** Remove the victim to fresh air. If there is difficulty breathing, seek immediate medical attention. **Most Important Symptoms and Effects Both**

Acute and Delayed: Skin and eye irritation **Immediate Medical Attention and Special**

Treatment: Treatment based on sound judgment of a physician and individual reactions of the patient.

Section 5.

Fire-Fighting Measures **Suitable and Unsuitable Extinguishing Media:** Use extinguishing media suitable for the surrounding fire. **Hazardous Combustion Products:** Oxides of sodium and phosphorus. **Specific Hazards Arising From the Product:** None known **Special Protective Equipment and Precautions For Firefighters:** Firefighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

Section 6.

Accidental Release Measures **Personal Precautions, Protective Equipment and Emergency**

Procedures: Gloves, coveralls, chemical-resistant footwear, safety glasses. Secure the area.

Avoid the generation of dust. **Environmental Precautions:** Do not allow spilled material to enter sewers and surface watercourses. **Methods and Materials For Containment and Clean-**

Up: Sweep up spilled material into a container suitable for disposal. Wash the area with water to remove trace materials.



Section 7.

Handling and Storage Precautions For Safe Handling: Handle with care, irritant. **Conditions For Safe Storage:** Store in a cool, dry place. Keep containers closed when not in use.

Section 8.

Exposure Controls / Personal Protection Control Parameters: Trisodium phosphate

- TWA: 8 Hr
 - STEL: 15 min
 - Ceiling IDLH * Not established.
- *Immediately Dangerous to Life and Health

Exposure Controls Local Exhaust Ventilation: Provide adequate ventilation. Ensure an eye wash station is available. **Appropriate Engineering Controls:** Provide adequate ventilation. **Individual Protective Measures:**

- Eye / Face Protection: Safety glasses.
- Skin Protection: Chemical-resistant coveralls, gloves.
- Respiratory Protection: Air-purifying respirator fitted with HEPA filters should be worn if exposure limits are exceeded.

Section 9.

Physical and Chemical Properties Appearance: White powder **Odour:** No odor. **pH:** 13 - 14 (10% solution) **Flash Point:** Not applicable **Boiling Point and Boiling Range:** No data **Melting Point and Freezing Point:** 75 °C **Evaporation Rate:** Not applicable **Flammability (solid, gas):** Not flammable **Upper and Lower Flammability or Explosive Limits:** No data **Vapour Pressure:** Not applicable **Vapour Density:** Not applicable **Relative Density:** 1.62 **Solubility:** Soluble **Partition Coefficient, nOctanol/Water:** No data **Auto-Ignition Temperature:** Not applicable **Decomposition Temperature:** 75 °C **Viscosity:** No data

Section 10.

Stability and Reactivity Reactivity: Stable **Chemical Stability:** Stable **Possibility of Hazardous Reactions:** Will not occur **Conditions to Avoid:** None known. **Incompatible Materials:** Magnesium metal. Strong acids. **Hazardous Decomposition Products:** Not expected to decompose under normal conditions of use.



Section 11.

Toxicological Information Component Toxicity: Trisodium phosphate

- LD50 Oral: 7.4g/kg (Rabbit)
- Likely Routes of Exposure
 - Skin: May cause severe irritation.
 - Eyes: May cause severe irritation and mild burns to the cornea. Can cause permanent damage to the cornea.
 - Inhalation: Inhalation of aerosols may cause irritation of the upper respiratory tract.
 - Ingestion: May cause irritation or mild burns to the mouth, throat, and stomach. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

Acute Toxicity Estimates (ATE): No data **STOT (Specific Target Organ Toxicity) – Single Exposure:** Not classified **Aspiration Toxicity:** Not classified **STOT (Specific Target Organ Toxicity) – Repeated Exposure:** Not classified **Skin Corrosion / Irritation:** Irritant **Serious Eye Damage / Irritation:** Irritant **Respiratory or Skin Sensitization:** Not classified **Carcinogenicity:** Not listed. **Reproductive Toxicity - Sexual Function and Fertility:** Not classified

- Development of Offspring: Not classified
- Effects on or via Lactation: Not classified **Germ Cell Mutagenicity:** Not classified **Interactive Effects:** None known **Other information:** None known

Section 12.

Ecological Information Ecotoxicity: Trisodium phosphate dodecahydrate EC50: 151 mg/L/96 hr (Mosquito fish) **Persistence and Degradability:** Will not persist **Bioaccumulative Potential:** No data **Biodegradability:** No data **Mobility in Soil:** Not available **Other Adverse Effects:** None known

Section 13.

Disposal Considerations Disposal Considerations: Dispose of contents/container in accordance with local regulations.

Section 14.

Transport Information UN Number: Not applicable **UN Proper Shipping Name:** Not applicable **Transport Hazard Class(es):** Not applicable **Packaging Group:** Not applicable **Environmental Hazards:** Not applicable **Bulk Transport:** Not applicable **Special Precaution:** Not applicable **DOT Erg#:** Not applicable



Section 15.

Regulatory Information Canada – DSL Inventory: All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt **TSCA:** All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt **Additional Information:** None

Section 16.

Other Information NFPA Rating: Health-2/ Flammability-0/Reactivity-1/Special Hazard-Not applicable **HMIS Rating:** Health-2/Flammability-0/Reactivity-1/Personal Protection-See Section 8. **Prepared by:** Chemfax Products Ltd., Technical Department **Date Prepared:** 03 November, 2011 **Date of Latest Revision:** 25 January 2021

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