**Section 1 - Chemical Product and Company Identification**

**Chemical Name:** Trisodium Phosphate, 12 Hydrate Crystalline (Technical Grade)

**Product Use:** For Commercial Use

**Restrictions on Use**

NOT TO BE USED AS A PESTICIDE. THIS PRODUCT IS NOT TO BE USED IN VIOLATION OF ANY PATENTS. CHEM ONE LTD. DISCLAIMS ANY AND ALL WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR APPLICATION. IN NO EVENT SHALL CHEM ONE LTD. OR ITS SUPPLIERS BE LIABLE FOR ANY DAMAGES WHATSOEVER INCLUDING DIRECT, INDIRECT, CONSEQUENTIAL, LOSS OF BUSINESS PROFITS OR SPECIAL DAMAGES, EVEN IF CHEM ONE LTD. OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OF LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES SO THE FOREGOING LIMITATION MAY NOT APPLY.

**Supplier Information**

Chem One Ltd.
14140 Westfair East Drive
Houston, Texas 77041-1104
Phone: (713) 896-9966
Fax: (713) 896-7540

Emergency # (800) 424-9300 or +1 (703) 527-3887

**General Comments:**

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

**Section 2 - Hazards Identification**

**GHS Hazards**

**Hazard Classes**

- Skin corrosion
- Serious eye damage

**Hazard Categories**

- Category 1B
- Category 1

**Signal Word:** Danger

**Pictograms:**

**Hazard Statements**

**Physical Hazards:** None

**Health Hazards:** H314: Causes serious skin burns and eye damage

**Environmental Hazards:** None

**Precautionary Statements:**

P102: Keep out of reach of children
P202: Do not handle until all safety precautions have been read and understood
**Safety Data Sheet**

**Material Name:** Trisodium Phosphate, 12 Hydrate Crystalline (Technical Grade)  
**ID:** C1-150

P261: Avoid breathing dust  
P273 Avoid release to the environment  
P280: Wear protective gloves, clothing and eye protection

**RESPONSE STATEMENTS:**

P301 +310+ P331: IF SWALLOWED: USA Immediately call the National POISON CENTER at 800-222-1222. DO NOT induce vomiting  
P303+P361+353: IF ON SKIN Take off immediately all contaminated clothing. Rinse skin with water  
P304+340: IF INHALED, Remove to fresh air and keep comfortable for breathing  
P305+P351: IF IN EYES rinse cautiously with water for at least 15 minutes  
P306+P361: IF ON CLOTHING, Take off contaminated clothing  
P370: In case of fire use foam, carbon dioxide, dry chemical to extinguish fire  
P376: Stop a spill if safe to do so. See section 6 for proper clean up

**STORAGE STATEMENTS:**

P403: Keep Cool Store in a well-ventilated place

**DISPOSAL STATEMENTS:**

P501: Dispose of content and/or container in accordance with local, regional, national or international regulations

| **Section 3 - Composition / Information on Ingredients** |
|---|---|
| **CAS #** | **Component** | **Percent** |
| 10101-89-0 | Trisodium Phosphate Dodecahydrate | 98-100 |

**Synonyms:** Sodium phosphate tribasic, tribasic sodium phosphate, trisodium orthophosphate, Orthophosphate trisodique, TSP

**Section 4 - First Aid Measures**

**Emergency Overview**

This product is a colorless, odorless solid, in crystal form. This product is corrosive, and can cause moderate to severe irritation to contaminated tissues which come in contact with dusts or particulates of this product. If ingested burns can occur to the digestive system. This product is not flammable or reactive. Thermal decomposition of this product produces irritating vapors and toxic gases (e.g. phosphorous oxides). Emergency responders should wear proper personal protective equipment for the releases to which they are responding.

**Hazard Statements**

DANGER! MAY BE FATAL IF SWALLOWED. MAY CAUSE BURNS TO THE EYES AND SKIN. EYE CONTACT CAN RESULT IN CORNEAL DAMAGE. MAY CAUSE DIFFICULT BREATHING AND RESPIRATORY TRACT IRRITATION. Avoid contact with eyes and skin. Avoid breathing dusts. Keep containers closed. Use with adequate ventilation. Wash thoroughly after handling. Use with adequate ventilation.

**Potential Health Effects: Eyes**

Exposure to particulates or solution of this product may cause moderate to severe irritation of the eyes, including burns, depending on duration and concentration of contact. Severe contact with the eyes can cause corneal injury, including clouding and burns, which could lead to blindness. Permanent damage (cloudiness of the cornea) has resulted from contact with Trisodium Phosphate, anhydrous solution in two case reports, one involving hot solution. Concentrations were not reported. In another case report, injury occurred as a result of a splash of aqueous solution, but healed within 48 hours (concentration not reported).
**Section 4 – First Aid Measures Continued**

**Potential Health Effects: Skin**

This product can cause moderate to severe irritation of the skin, depending on duration and concentration of exposure. Severe exposure or contact in the presence of moisture, or if product is in solution can cause burns. Alkalis penetrate skin slowly. The extent of damage therefore depends on duration of contact. Repeated skin contact to low levels may lead to dermatitis (red, cracked skin).

**Potential Health Effects: Ingestion**

Ingestion of this product in large volumes may irritate or burn the tissues of the mouth, esophagus, and other tissues of the digestive system. Symptoms of exposure can include vomiting, diarrhea, and nausea. In severe cases, death may result. The estimated fatal dose of sodium phosphates is 50 g.

**Potential Health Effects: Inhalation**

Breathing dusts or particulates generated by this product or to mists if in solution, can lead to moderate to severe irritation of the nose, throat or respiratory system, depending on duration and concentration of exposure. Symptoms of minor exposure could include coughing, wheezing, and shortness of breath. According to one report, irritation of the nose and throat was caused by exposure to 0.5 to 2.0 mg/m³ airborne dust for one hour. Irritation has also been reported after short exposures above 7-10 mg/m³. Severe inhalation exposure can result in pulmonary edema (a condition of fluid in the lungs), which can be fatal.

**First Aid: Eyes**

In case of contact with eyes, rinse immediately with plenty of water for at least 20 minutes. Seek immediate medical attention.

**First Aid: Skin**

Remove all contaminated clothing. For skin contact, wash thoroughly with soap and water for at least 20 minutes. Seek immediate medical attention if irritation develops or persists. Completely decontaminate clothing, shoes, and leather goods before reuse.

**First Aid: Ingestion**

Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Immediately give large amounts of water. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical advice immediately. Never give anything by mouth to a victim who is unconscious or having convulsions.

**First Aid: Inhalation**

Remove source of contamination or move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Get immediate medical attention.

**First Aid: Notes to Physician**

Provide general supportive measures and treat symptomatically.

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**Section 5 - Fire Fighting Measures**

**General Fire Hazards**

Trisodium Phosphate Dodecahydrate is not combustible, and does not contribute to the intensity of a fire. Closed containers exposed to heat may explode. When involved in a fire, this material may decompose and produce irritating vapors, acrid smoke and toxic gases. Solutions can react with metals such as aluminum, zinc and galvanized iron to produce highly flammable hydrogen gas, which may explode if ignited.

**Hazardous Combustion Products**

Oxides of phosphorous.

**Extinguishing Media**

Use methods for the surrounding fire and other materials involved in the fire.
**Safety Data Sheet**  
**Material Name:** Trisodium Phosphate, 12 Hydrate Crystalline (Technical Grade)  
**ID:** C1-150  

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### Section 5 - Fire Fighting Measures Continued

**Fire Fighting Equipment/Instructions**
Firefighters should wear full protective clothing including self-contained breathing apparatus. If possible control runoff from fire control or dilution water to prevent environmental contamination.

**NFPA Ratings:**
- **Health:** 2  
- **Fire:** 0  
- **Instability:** 1  
- **Other:**  

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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### Section 6 - Accidental Release Measures

**Containment Procedures**
Stop the flow of material, if this can be done without risk. Contain the discharged material. If sweeping of a contaminated area is necessary use a dust suppressant agent, which does not react with product (see Section 10 for incompatibility information).

**Clean-Up Procedures**
Small releases can be cleaned-up wearing gloves, goggles and suitable body protection. In case of a large spill (in which excessive dusts can be generated), clear the affected area, protect people, and respond with trained personnel. Do not allow the spilled product to enter public drainage system or open water courses. Place all spill residues in an appropriate container and seal. Thoroughly wash the area after a spill or leak clean-up. Prevent spill rinsate from contamination of storm drains, sewers, soil or groundwater.

**Evacuation Procedures**
Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. In case of large spills, follow all facility emergency response procedures.

**Special Procedures**
Remove soiled clothing and launder before reuse. Avoid all skin contact with the spilled material. Have emergency equipment readily available.

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### Section 7 - Handling and Storage

**Handling Procedures**
All employees who handle this material should be trained to handle it safely. Do not breathe dust. Avoid all contact with skin and eyes. Use this product only with adequate ventilation. Wash thoroughly after handling.

**Storage Procedures**
Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Storage areas should be made of corrosion- and fire-resistant materials. Post warning and “NO SMOKING” signs in storage and use areas, as appropriate. Use corrosion-resistant structural materials, lighting, and ventilation systems in the storage area. Floors should be sealed to prevent absorption of this material. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Have appropriate extinguishing equipment in the storage area (i.e., sprinkler system, portable fire extinguishers).

Empty containers may contain residual particulates; therefore, empty containers should be handled with care. Do not cut, grind, weld, or drill near this container. Never store food, feed, or drinking water in containers that held this product. Keep this material away from food, drink and animal feed. Do not store this material in open or unlabeled containers. Limit quantity of material stored.
**Section 8 - Exposure Controls / Personal Protection**

### Exposition Guidelines

**A: General Product Information**
Follow the applicable exposure limits.

**B: Component Exposure Limits**

*The exposure limits given are for Particulates Not Otherwise Classified.*

- **ACGIH:** 10 mg/m³ TWA (Inhalable fraction)
- **OSHA:** 5 mg/m³ TWA (Respirable fraction)
- **DFG MAKs:** 4 mg/m³ TWA (Inhalable fraction)
- **OSHA:** 5 mg/m³ TWA (Respirable fraction)

### Engineering Controls

Ventilation must be sufficient to effectively remove and prevent buildup of dust or fumes that may be generated during handling or thermal processing. Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

### PERSONAL PROTECTIVE EQUIPMENT

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132). Please reference applicable regulations and standards for relevant details.*

**Personal Protective Equipment: Eyes/Face**
Wear safety glasses (or goggles). If necessary, refer to U.S. OSHA 29 CFR 1910.133.

**Personal Protective Equipment: Skin**
Use impervious gloves. Gloves should be tested to determine their suitability for prolonged contact with this material. If necessary, refer to U.S. OSHA 29 CFR 1910.138.

**Personal Protective Equipment: Respiratory**
None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask. If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA’s Respiratory Protection Standard (1910.134-1998).

**Personal Protective Equipment: General**
Wash hands thoroughly after handling material. Do not eat, drink or smoke in work areas. Have a safety shower or eye-wash fountain available.

### Protective Clothing Pictograms

- **Splash Goggles**
- **Protective Apron**
- **Dust Respirator**
- **Gloves**
**Safety Data Sheet**

**Material Name:** Trisodium Phosphate, 12 Hydrate Crystalline (Technical Grade)  
**ID:** C1-150

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### Section 9 - Physical & Chemical Properties

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

**Appearance:** White crystals  
**Odor:** Odorless  
**Physical State:** Solid  
**pH:** 12.0 (1% solution)  
**Vapor Pressure:** Zero  
**Vapor Density:** Not applicable  
**Boiling Point:** Not applicable  
**Melting Point:** 166 deg F (73 deg C)  
**Solubility (H2O):** 28 g/100 ml water @ 15 deg C  
**Specific Gravity:** 1.62(H2O = 1)  
**Freezing Point:** Not applicable  
**Particle Size:** Not determined  
**Softening Point:** Not applicable  
**Bulk Density:** Not available  
**Flash Point:** Not applicable  
**Chemical Formula:** Na3PO4•12H2O

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### Section 10 - Chemical Stability & Reactivity Information

**Chemical Stability**

Stable under conditions of standard temperature and pressure. Trisodium Phosphate can react with air to form disodium phosphate and sodium carbonate. Trisodium phosphate forms strong caustic solution, similar to soda lye. Solutions can react with metals such as aluminum, zinc and galvanized iron to produce highly flammable hydrogen gas that may explode if ignited.

**Chemical Stability: Conditions to Avoid**

Avoid high temperatures, exposure to air and incompatible materials.

**Incompatibility**

Trisodium Phosphate is incompatible with strong acids and may react violently; in solution reaction may cause splattering. In solution, Trisodium Phosphate will react with metals such as aluminum, zinc and galvanized iron to form flammable hydrogen gas. Trisodium Phosphate may react violently with magnesium. Trisodium Phosphate can be corrosive with some metals, including aluminum, zinc and tin. Trisodium Phosphate is corrosive to gray cast iron at high temperatures and may be corrosive to steel or brass, if wet.

**Hazardous Decomposition**

Phosphorus oxides.

**Hazardous Polymerization**

Will not occur.

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### Section 11 - Toxicological Information

**Acute and Chronic Toxicity**

**A: General Product Information**

May cause moderate to severe eye, skin, nose, throat and respiratory tract irritation or burns. After 0.1 ml of Trisodium Phosphate was placed in the eye of a rabbit, a corrosive effect was seen within 24 hours. After 14 days, eye regained normal appearance. Moderate irritation was observed when 0.5 mg/L of Trisodium Phosphate was held in continuous contact with intact skin of a rabbit and abraded skin for 24 hours.

**Chronic:** Long term skin overexposure to this product may lead to dermatitis (red, itchy skin).

**B: Component Analysis - LD50/LC50**

**Trisodium Phosphate:**

LD50 (Oral-Rat) 7400 mg/kg; LD50 (Intraperitoneal-Mouse) 430 mg/kg; LD50 (Skin-Rabbit) > 7940 mg/kg
**Section 11 - Toxicological Information Continued**

**C: Component Analysis - TDLo/LDLo**

LDLo (Intravenous-Rabbit) 1580 mg/kg

**Carcinogenicity**

**A: General Product Information**

Trisodium Phosphate is not considered carcinogenic by ACGIH, IARC, NIOSH, NTP, or OSHA.

**B: Component Carcinogenicity**

No information available.

**Epidemiology**

No information available.

**Neurotoxicity**

No information available.

**Mutagenicity**

Sex Chromosome Loss and Non-Disjunction (Oral-Drosophila melanogaster) 11 pph

**Teratogenicity**

No information available.

**Other Toxicological Information**

LD (Skin-Rabbit) > 300 mg/kg

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**Section 12 - Ecological Information**

**Ecotoxicity**

**A: General Product Information**

Product can be dangerous to aquatic life in high concentrations as it will increase the pH of the aquatic environment.

**B: Ecotoxicity**

No information available.

**Environmental Fate**

Product is not expected to accumulate in the food chain.

---

**Section 13 - Disposal Considerations**

**US EPA Waste Number & Descriptions**

**A: General Product Information**

EPA waste code for corrosivity (D002) may be required. Wastes should be tested to determine applicability.

**B: Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions**

All wastes must be handled in accordance with local, state and federal regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.
**Section 14 - Transportation Information**

NOTE: The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

**US DOT Information**
- **Shipping Name:** Not applicable.
- **Hazard Class:** Not applicable
- **UN/NA #:** Not applicable
- **Packing Group:** Not applicable
- **Required Label(s):** Not applicable
- **RQ Quantity:** Not applicable

*NOTE: In single package greater than 5,000 lbs.*

**US DOT 49 CFR 100-185 Revised July 28, 2015 Information**

- **UN/NA #:** UN 3077
- **Shipping Name:** Environmentally Hazardous Substance, solid, n.o.s. (Sodium Phosphate Tribasic)
- **Hazard Class:** 9
- **Packing Group:** III
- **Required Label(s):** Class 9
- **Special Provision:** 8, 146, 335, A112, B54, IB8, IP2, N20, T1, TP33
- **Packaging:** 172.155, 172.213
- **RQ Quantity:** For a single package less than the RQ of 5000lb the RQ designation should not be used.

Please refer to the most recent edition of the “International Air Transport Association (IATA)” Regulations

Please refer to the most recent Amendment of the “International Maritime Dangerous Goods (IMDG) Code”

**Section 15 - Regulatory Information**

**US Federal Regulations**

**A: General Product Information**
Trisodium Phosphate Dodecahydrate (CSA #: 10101-89-0) is not on the TSCA inventory. As a hydrate, Trisodium Phosphate Dodecahydrate is accepted from TSCA Inventory requirements (per 40 CFR 720.3 (u) (2)).

**B: Component Analysis**
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

SARA 302: There are no specific Threshold Planning Quantities for Trisodium Phosphate Dodecahydrate. The default Federal (EHS TPQ) MSDS submission and inventory requirement filing threshold of 10,000 lbs. (4,540 kg) therefore applies, per 40 CFR 370.20.

**Trisodium Phosphate Dodecahydrate (10101-89-0)**
- **CERCLA:** final RQ = 5000 pounds (2270 kg) (Listed under 'Sodium phosphate, tribasic')
- The following identified ingredients are not on the TSCA Inventory:
  - 10101-89-0 Trisodium Phosphate Dodecahydrate

**C: Sara 311/312 Tier II Hazard Ratings:**
Safety Data Sheet

Material Name: Trisodium Phosphate, 12 Hydrate Crystalline (Technical Grade)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Fire Hazard</th>
<th>Reactivity Hazard</th>
<th>Pressure Hazard</th>
<th>Immediate Health Hazard</th>
<th>Chronic Health Hazard</th>
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</thead>
<tbody>
<tr>
<td>Trisodium Phosphate Dodecahydrate</td>
<td>10101-89-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

State Regulations
A: General Product Information
California Proposition 65
Trisodium Phosphate Dodecahydrate is not on the California Proposition 65 chemical lists.

B: Component Analysis - State
The following components appear on one or more of the following state hazardous substance lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>CA</th>
<th>FL</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trisodium Phosphate Dodecahydrate</td>
<td>10101-89-0</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

Other Regulations
A: General Product Information
Trisodium Phosphate Anhydrous is designated as a hazardous substance under section 311(b) (2) (A) of the Federal Water Pollution Control Act and further regulated by the Clean Water Act Amendments of 1977 and 1978. These regulations apply to discharges of this substance.

B: Component Analysis - Inventory

C: Component Information (Canada)
Trisodium Phosphate Dodecahydrate is not listed in the WHMIS IDL

ANSI LABELING (Z129.1):
DANGER! MAY BE FATAL IF SWALLOWED. CAUSES SKIN AND EYE BURNS. HARMFUL IF INHALED. Do not taste or swallow. Do not get on skin or in eyes. Avoid breathing dusts or particulates. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Wear gloves, goggles, face shields, suitable body protection, and NIOSH/MSHA-approved respiratory protection, as appropriate. FIRST-AID: In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If inhaled, remove to fresh air. If ingested, do not induce vomiting. Get medical attention. IN CASE OF FIRE: Use water fog, dry chemical, CO2, or "alcohol" foam. IN CASE OF SPILL: Absorb spill with inert material or neutralizing agent for bases. Place residue in suitable container. Consult Material Safety Data Sheet for additional information.

Other Information
Chem One Ltd. ("Chem One") shall not be responsible for the use of any information, product, method, or apparatus herein presented ("Information"), and you must make your own determination as to its suitability and completeness for your own use, for the protection of the environment, and for health and safety purposes. You assume the entire risk of relying on this Information. In no event shall Chem One be responsible for damages of any nature whatsoever resulting from the use of this product or products, or reliance upon this Information. By providing this Information, Chem One neither can nor intends to control the method or manner by which you use, handle, store, or transport Chem One products. If any materials are mentioned that are not Chem One products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed. Chem One makes no representations or warranties, either express or implied of merchantability, fitness for a particular purpose or of any other nature regarding this information, and nothing herein waives any of Chem One's conditions of sale. This information could include technical inaccuracies or typographical errors. Chem One may make improvements and/or changes in the product(s) and/or the program(s) described in this information at any time. If you have any questions, please contact us at Tel. 713-896-9966 or E-mail us at Safety@chemone.com.
Safety Data Sheet
Material Name: Trisodium Phosphate, 12 Hydrate Crystalline (Technical Grade)  ID: C1-150

Key/Legend
EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of
Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for
Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health
Administration

Contact: Sue Palmer-Koleman, PhD  Contact Phone: (713) 896-9966

Revision Log
07/11/00 10:50AM SEP  Company name revised, Sect 1 and 16, from Corporation to Ltd.; text in Sect 12 “will lower pH”,
Changed to “will increase pH”.
06/02/01 9:31 AM HDF  Checked exposure limits; made changes to Sect 9; overall review, add SARA 311/312 Haz
Ratings.
08/20/01 6:00 PM CLJ Add Shipments by Air information to Section 14, Changed contact to Sue, non-800 Chemtrec Num.
09/30/03: 11:10 AM HDF  General Review and up-date of entire MSDS. Up-date of HMIS categories. Up-date of Section 8.
Addition of Stability information, Section 10. Up-date of toxicity data, Section 11. Up-date of Section 14. Addition of Clean
Water Act information, Section 15.
06/22/05: 11:10 SEP Updated IATA, Section 14
10/23/07 2:31pm SEP Updated IATA Section 14
12/8/10 4:00 PM SEP Updated IATA
07/30/2015 GHS Revisions all sections
This is the end of SDS # C1-150

Revised By:
SJC Compliance Education, Inc.
16516 El Camino Real Suite 417
Houston TX 77062

09/27/2018 Melanie Koch audited. Nothing else was changed during this revision.