

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.19.2014

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## Trisodium Phosphate,

### SECTION 1: Identification of the substance/mixture and of the supplier

**Product name:** Trisodium Phosphate,

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** S25564

**Recommended uses of the product and restrictions on use:**

**Manufacturer Details:**

AquaPhoenix Scientific, Inc  
9 Barnhart Drive, Hanover, PA 17331  
(717) 632-1291

**Supplier Details:**

Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064  
(724)517-1954

**Emergency telephone number:**

**Fisher Science Education**  
Emergency Telephone No.: 800-535-5053

### SECTION 2: Hazards identification

**Classification of the substance or mixture:**



**Irritant**

Skin Corr. 1B.

Eye Damage. 1.

**Signal word:** Warning

**Hazard statements:**

Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

**Precautionary statements:**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash ... thoroughly after handling.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Use only outdoors or in a well-ventilated area.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.  
Continue rinsing.  
Specific treatment (see ... on this label).  
IF ON SKIN: Wash with soap and water.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists get medical advice/attention.

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Take off contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Store locked up.

Store in a well ventilated place. Keep container tightly closed.

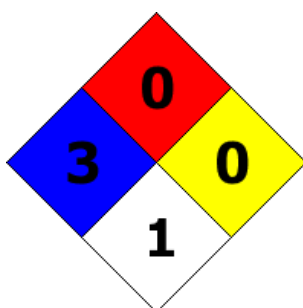
Dispose of contents/container to ....

#### Other Non-GHS Classification:

##### WHMIS



##### NFPA/HMIS



NFPA SCALE (0-4)

|                     |   |
|---------------------|---|
| Health              | 3 |
| Flammability        | 0 |
| Physical Hazard     | 0 |
| Personal Protection | X |

HMIS RATINGS (0-4)

### SECTION 3: Composition/information on ingredients

| Ingredients:              |                     |       |
|---------------------------|---------------------|-------|
| CAS 10101-89-0            | Trisodium Phosphate | 100 % |
| Percentages are by weight |                     |       |

### SECTION 4: First aid measures

#### Description of first aid measures

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Do not perform mouth-to-mouth to resuscitate. Immediately get medical assistance.

##### After skin contact:

Wash affected area with soap and water. Seek medical advice if discomfort or irritation persists.

##### After eye contact:

Protect unexposed eye. Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Occasionally lift the upper and lower eyelids while rinsing. Go to the hospital. Continue rinsing eyes during transport to hospital.

##### After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Get medical assistance.

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

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Irritation. Nausea. Headache. Shortness of breath.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician.

#### SECTION 5: Firefighting measures

##### Extinguishing media

###### Suitable extinguishing agents:

Use water, dry chemical, chemical foam, or alcohol-resistant foam.

###### Unsuitable extinguishing agents: None

##### Special hazards arising from the substance or mixture: None

##### Advice for firefighters:

###### Protective equipment:

Wear protective eyewear, gloves, and clothing.

###### Additional information (precautions):

Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing.

#### SECTION 6: Accidental release measures

##### Personal precautions, protective equipment and emergency procedures:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Use spark-proof tools and explosion-proof equipment.

##### Environmental precautions:

Should not be released into environment. Collect contaminated soil for characterization per Section 13.

##### Methods and material for containment and cleaning up:

Sweep up and containerize for disposal. Avoid generating dust. Always obey local regulations. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Prevent further leakage or spillage if safe to do so. If necessary use trained response staff or contractor.

##### Reference to other sections: None

#### SECTION 7: Handling and storage

##### Precautions for safe handling:

Wash hands before breaks and immediately after handling the product. Wash hands and exposed skin with soap and plenty of water. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

##### Conditions for safe storage, including any incompatibilities:

Keep away from food, beverages, and feed sources. Protect from freezing and physical damage. Do not store near strong acids. Keep product and empty container away from heat and sources of ignition. Store with like hazards. Keep container tightly closed in a cool, dry, and well-ventilated area. Store in inert atmosphere. Store away from acids.

#### SECTION 8: Exposure controls/personal protection



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|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Control Parameters:</b>               | 10101-89-0, Sodium phosphate tribasic dodecahydrate, USA Workplace Environmental Exposure Levels (WEEL).                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Appropriate Engineering controls:</b> | It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. |
| <b>Respiratory protection:</b>           | Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. Use NIOSH-approved respiratory protection or breathing apparatus.                                                                                                                                                             |
| <b>Protection of skin:</b>               | Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation.                                                                                                                                                                                                                                                                                                                                               |
| <b>Eye protection:</b>                   | Safety glasses or goggles.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>General hygienic measures:</b>        | Avoid contact with skin, eyes, and clothing. Wash hands and exposed skin with soap and plenty of water. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and shoes. Before wearing wash contaminated clothing.                                                                                                                                                                                                                    |

### SECTION 9: Physical and chemical properties

|                                            |                             |                                                 |                                                            |
|--------------------------------------------|-----------------------------|-------------------------------------------------|------------------------------------------------------------|
| <b>Appearance (physical state, color):</b> | White solid                 | <b>Explosion limit lower:</b>                   | No Information                                             |
|                                            |                             | <b>Explosion limit upper:</b>                   | No Information                                             |
| <b>Odor:</b>                               | Odorless                    | <b>Vapor pressure at 20°C:</b>                  | Not Applicable                                             |
| <b>Odor threshold:</b>                     | Not Applicable              | <b>Vapor density:</b>                           | Not Applicable                                             |
| <b>pH-value:</b>                           | 11.8-12 1% aqueous solution | <b>Relative density:</b>                        | 1.62 g/cm <sup>3</sup> at 25 °C                            |
| <b>Melting/Freezing point:</b>             | 75°C                        | <b>Solubilities:</b>                            | Soluble in water: 190.1 g/l at 20 °C.                      |
| <b>Boiling point/Boiling range:</b>        | Not Applicable              | <b>Partition coefficient (n-octanol/water):</b> | Not Applicable                                             |
| <b>Flash point (closed cup):</b>           | Not Applicable              | <b>Auto/Self-ignition temperature:</b>          | No Information                                             |
| <b>Evaporation rate:</b>                   | Not Applicable              | <b>Decomposition temperature:</b>               | 75°C                                                       |
| <b>Flammability (solid, gaseous):</b>      | No Information              | <b>Viscosity:</b>                               | a. Kinematic: Not Applicable<br>b. Dynamic: Not Applicable |
| <b>Density at 20°C:</b>                    | Not Applicable              |                                                 |                                                            |

### SECTION 10: Stability and reactivity

**Reactivity:** None

**Chemical stability:**

Stable under normal conditions.

**Possible hazardous reactions:** None

**Conditions to avoid:**

High temperatures. Dust generation.

**Incompatible materials:**

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Strong acids.

#### Hazardous decomposition products:

Phosphorus oxides. Sodium oxides.

### SECTION 11: Toxicological information

#### Acute Toxicity:

##### Oral:

ECHA LD50 Oral - rat - 7,400 mg/kg

**Chronic Toxicity:** No additional information.

**Corrosion Irritation:** No additional information.

**Sensitization:** No additional information.

**Numerical Measures:** No additional information.

**Carcinogenicity:** No additional information.

**Mutagenicity:** No additional information.

**Reproductive Toxicity:** No additional information.

### SECTION 12: Ecological information

#### Ecotoxicity:

Toxicity to fish: LC0 - Leuciscus idus (Golden orfe) - 2,400 mg/l - 48 h

#### Persistence and degradability:

Readily degradable in the environment.

**Bioaccumulative potential:** No additional information.

**Mobility in soil:** No additional information.

#### Other adverse effects:

Shortness of breath. Coughing. Headache. Nausea. Vomiting.

### SECTION 13: Disposal considerations

#### Waste disposal recommendations:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Product or containers must not be disposed together with household garbage. Consult federal, state, provincial, and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

### SECTION 14: Transport information

#### US DOT

##### UN Number:

ADR, ADN, DOT, IMDG, IATA

3262

##### Limited Quantity Exception:

None

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### Trisodium Phosphate,

**Bulk:**

**RQ (if applicable):** None

**Proper shipping Name:** CORROSIVE SOLID,  
BASIC, INORGANIC, N.O.S.

**Hazard Class:** 8

**Packing Group:** II.

**Marine Pollutant (if applicable):** No  
additional information.

**Comments:** None

**Non Bulk:**

**RQ (if applicable):** None

**Proper shipping Name:** CORROSIVE SOLID,  
BASIC, INORGANIC, N.O.S.

**Hazard Class:** 8

**Packing Group:** II.

**Marine Pollutant (if applicable):** No  
additional information.

**Comments:** None



### SECTION 15: Regulatory information

#### United States (USA)

**SARA Section 311/312 (Specific toxic chemical listings):**

Acute

**SARA Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

**RCRA (hazardous waste code):**

10101-89-0 Not applicable.

**TSCA (Toxic Substances Control Act):**

10101-89-0 Not applicable.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

10101-89-0 Trisodium Phosphate 5000 lb.

#### Proposition 65 (California):

**Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

#### Canada

**Canadian Domestic Substances List (DSL):**

10101-89-0 Not applicable.

**Canadian NPRI Ingredient Disclosure list (limit 0.1%):**

None of the ingredients are listed.

**Canadian NPRI Ingredient Disclosure list (limit 1%):**

None of the ingredients are listed.

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#### SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The 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 user to comply with all applicable laws and regulations applicable to this material.

**GHS Full Text Phrases:** None

#### Abbreviations and Acronyms:

IMDG International Maritime Code for Dangerous Goods.  
PNEC Predicted No-Effect Concentration (REACH).  
CFR Code of Federal Regulations (USA).  
SARA Superfund Amendments and Reauthorization Act (USA).  
RCRA Resource Conservation and Recovery Act (USA).  
TSCA Toxic Substances Control Act (USA).  
NPRI National Pollutant Release Inventory (Canada).  
DOT US Department of Transportation.  
IATA International Air Transport Association.  
GHS Globally Harmonized System of Classification and Labelling of Chemicals.  
ACGIH American Conference of Governmental Industrial Hygienists.  
CAS Chemical Abstracts Service (division of the American Chemical Society).  
NFPA National Fire Protection Association (USA).  
HMIS Hazardous Materials Identification System (USA).  
WHMIS Workplace Hazardous Materials Information System (Canada).  
DNEL Derived No-Effect Level (REACH).

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**Last updated:** 06.16.2015