

# SAFETY DATA SHEET

## 1. Identification of the Substance and of the Company

Revised: May 15, 2015

**Product Name:** Trisodium Phosphate (TSP) - Dodecahydrate**WC Code:** 20-032A**Product Use:** Photographic developers; Removing boiler scale, Softening water; Detergent mixture; Wet finishing - pH value adjustment; Aluminum work pieces - Polishing, Burnishing; Clarifying sugar, Fermentation - Nutrient; Complementary feeding stuff for livestock breeding - Mineral enrichment**Company****WINTERSUN CHEMICAL**

1250 E. Belmont St.

Ontario, CA 91761

Call: 909-930-1688

**Information / Emergency Telephone**

CHEMTREC

DOMESTIC NORTH AMERICA 800-424-9300

INTERNATIONAL, CALL: 703-527-3887 (collect calls accepted)

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## 2. Hazard Identification

**GHS-US Classification**

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Target Organ Toxicity, (Category 3), H335

**GHS-US Label elements****Pictogram****Signal word: WARNING****Hazard statement(s)**

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation

H335: May cause respiratory irritation

**Precautionary statement(s)**

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash hands and other exposed area thoroughly after handling.

P301 + P330 + P331+ P312: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/ doctor/ medical personnel if you feel unwell.

P303 + P361 + P351 + P333 + P313: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse cautiously with water for several minutes. If skin irritation or rash occurs: Get medical advice/attention.

P304 + P340 + P342 + P311: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P305 + P351 + P338 + P337 + P313: 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: Get medical advice/attention.

P501: Dispose of contents/ container to an approved waste disposal plant.

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### 3. Composition/ Information on Ingredients

**Synonyms:** Tribasic Sodium Phosphate Dodecahydrate, Trisodium Phosphatedodecahydrate, Sodium Phosphate (Na<sub>3</sub>PO<sub>4</sub>) Dodecahydrate

**CAS No:** 10101-89-0

**Molecular Formula:** Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O

**Molecular Weight:** 380.12g/mol

**Appearance:** White crystal

**Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O:** 98.0% Min

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### 4. First-Aid Measures

#### Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical attention if irritation occurs.

#### Skin Contact

Remove any contaminated clothing. Wipe off excess from skin. Wash skin with soap and flush with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

#### Inhalation

If inhaled, remove to fresh air immediately and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention for any breathing difficulty.

#### Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

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### 5. Fire Fighting Measures

#### Specific hazards arising from the chemical

Sodium oxides, Oxides of phosphorus

#### Fire-fighting equipment/ instructions

Evacuate personnel to a safe area. If necessary, firefighters should use self-contained

breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media**

In case of a fire, use water spray, dry chemical, carbon dioxide, or chemical foam.

**Auto-ignition Temperature:** Not data available

**Flash Point:** Not data available

**Explosion Limits:** Not data available

**Reactivity:** Not data available

**Flammability of the Product:** No data available

**Flammable Limits:** Not data available

**NFPA Rating:** Health-3; flammability-0; reactivity-0

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**6. Accidental Release Measures****Personal precautions, protective equipment, and emergency procedures**

Use proper personal protective equipment as indicated in Section 8. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation.

**Containment and Cleaning up**

Handle in accordance with industrial hygiene and safety practices. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Avoid generating dusty conditions. Finish cleaning the contaminated surface and dispose of according to local and regional authority requirements.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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**7. Handling and Storage****Precautions**

Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Do not swallow. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wash hands and other exposed areas with mild soap and water after handling. Handle in accordance with good industrial hygiene and safety procedures.

**Storage**

Keep container tightly closed. Store in a dry, cool, and well-ventilated place. Keep away from heat. Empty containers should be handled with care because it may contain residual amounts of this product.

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**8. Exposure Controls / Personal Protection****Engineering Controls**

Use adequate ventilation or other engineering controls to keep airborne concentrations below recommended exposure limits. See OSHA Regulations state in 29 CFR 1910.151 (c) for an eyewash facility and safety shower requirement.

**Personal Protective Equipment**

**Eyes:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Control Parameter**

CAS: 10101-89-0, Value: STEL, Control Parameter: 5 mg/m<sup>3</sup> – USA WEEL

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**9. Physical and Chemical Properties**

**Appearance:** White crystal

**Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O:** 98.0% Min

**Phosphoruspentoxide:** 18.3%

**Non-solvable matter:** 0.10% Max

**SO<sub>4</sub>:** 0.50% Max

**Alkalinity methyl orange (by Na<sub>2</sub>O):** 15.0-19.0%

**Chloride(CL):** 0.30%

**Insoluble in Water:** 0.10%

**Odour:** No data available

**Odour Threshold:** No data available

**pH:** 11.5-12.2 (1% sol)

**Melting point/freezing point:** 75°C

**Initial boiling point and boiling range:** No data available

**Evaporation rate:** No data available

**Vapour pressure:** No data available

**Vapour density:** No data available

**Relative density:** No data available

**Specific Gravity:** 1.62

**Solubility in Water:** Soluble

**Viscosity:** No data available

**Oxidizing properties:** No data available

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**10. Stability and Reactivity**

**Stability:** Stable under ordinary conditions

**Reactivity:** No data available

**Conditions to avoid:** No data available

**Incompatibilities with other materials:** Strong acids

**Hazardous decomposition products:** No data available

**Hazardous polymerization:** No data available

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**11. Toxicological Information****Acute toxicity**

LD50 Oral - rat - 7,400 mg/kg

**Skin corrosion/ irritation**

No data available

**Serious eye damage/ eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Carcinogenicity**

The components of this product are not listed as carcinogen by ACGIH, IARC, NIOSH, NTP, or OSHA

**Special Remarks on Toxicity to Animals:** No data available

**Special Remarks on Chronic Effects on Humans:** No data available

**Special Remarks on other Toxic Effects on Humans:** No data available

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**12. Ecological Information**

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

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**13. Disposal Information****Waste Disposal**

Keep out of sewers and waterways. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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**14. Transport Information****US DOT**

Not regulated as a hazardous material

**Canada TDG**

Not regulated as a hazardous material

**IMDG/ IATA**

Not regulated as a hazardous material

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**15. Regulatory Information****SARA 302**

No chemical reportable under requirements of SARA Title III, Section 302.

**CERCLA/SARA Section 313**

Not chemical reportable under SARA Title III, Section 313.

**US State****State Right to Know:**

CAS# 10101-89-0 is listed on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

**California Regulations****California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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**16. Other Information**

**HMIS Rating**

Health hazard: 2  
Flammability: 0  
Physical Hazard: 0

**NFPA Rating**

Health-2  
Flammability-0  
Reactivity-0

**Revision Date:** May 15, 2015

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