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## MATERIAL SAFETY DATA SHEET (MSDS)

### TRI-SODIUM PHOSPHATE ANHYDROUS LR

#### 1 - Chemical Product

Product Name:Sodium phosphate tribasic dodecahydrate

Synonym:Trisodium orthophosphate dodecahydrate; Sodium phosphate tribasic dodecahydrate; Trisodium phosphate dodecahydrate; TSP dodecahydrate

Cas NO:7601-54-9

Product Coad: S0196000500

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

Molecular Weight: 380.11

#### 2 - COMPOSITION, INFORMATION ON INGREDIENTS

| CAS#      | Chemical Name                          | content | EINECS#  |
|-----------|--|---------|----------|
| 7601-54-9 | Sodium phosphate tribasic dodecahydrat | 100     | unlisted |

#### 3 - HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye:Causes eye irritation. May cause transient corneal injury.

Skin:Causes skin irritation.

Ingestion:Causes digestive tract irritation.

Inhalation:Causes respiratory tract irritation.

Chronic:Chronic inhalation may cause effects similar to those of acute inhalation. Effects may be delayed.

#### 4 - FIRST AID MEASURES

Eyes: Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

Skin:Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Wash clothing before reuse. Destroy contaminated shoes.

Ingestion:Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician:

#### 5 - FIRE FIGHTING MEASURES

General Information:As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn.

Extinguishing Media:Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

#### 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

Provide ventilation.

#### 7 - HANDLING and STORAGE

Handling:Wash thoroughly after handling. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Use with adequate ventilation. Discard contaminated shoes.

Storage:Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong acids.

#### 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 7601-54-9: CAS# 10101-89-0: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid

Color: colorless or white

Odor: odorless

pH: 11.9 @ 1% solution

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 75 deg C

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: Soluble.

Specific Gravity/Density: 1.62 @ 68F

**10 - STABILITY AND REACTIVITY**

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: High temperatures, dust generation.

Incompatibilities with Other Materials: Strong acids.

Hazardous Decomposition Products: Oxides of phosphorus, sodium oxide.

Hazardous Polymerization: Has not been reported.

**11 - TOXICOLOGICAL INFORMATION**

RTECS#:

CAS# 7601-54-9: TC9490000 CAS# 10101-89-0: TC9575000 LD50/LC50:

Not available.

CAS# 10101-89-0: Oral, rat: LD50 = 7400 mg/kg.

Carcinogenicity:

Trisodium phosphate, anhydrous - Not listed by ACGIH, IARC, or NTP.

Sodium phosphate tribasic dodecahydrate - Not listed by ACGIH, IARC, or NTP.

Other: See actual entry in RTECS for complete information.

**12 - ECOLOGICAL INFORMATION**

Other No information available.

**13 - DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

**14 - TRANSPORT INFORMATION**

Not Regulated

**15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

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Hazard Symbols: XI

**Risk Phrases:**

R 36/37/38 Irritating to eyes, respiratory system and skin.

**Safety Phrases:**

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 7601-54-9: 1

CAS# 10101-89-0: 1

Canada

CAS# 7601-54-9 is listed on Canada's DSL List.

CAS# 7601-54-9 is not listed on Canada's Ingredient Disclosure List.

CAS# 10101-89-0 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 7601-54-9 is listed on the TSCA inventory.

CAS# 10101-89-0 is not on the TSCA Inventory because it is a hydrate.

It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

**16. Other Information**

**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**