

# SAFETY DATA SHEET

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

|                |                                           |
|----------------|-------------------------------------------|
| Product name   | : Sodium phosphate tribasic dodecahydrate |
| Product Number | : S112442                                 |
| Brand          | : aladdin                                 |
| CAS-No.        | : 10101-89-0                              |

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Identified uses | : Laboratory chemicals, Manufacture of substances. |
|-----------------|----------------------------------------------------|

### 1.3 Company

|           |                                                   |
|-----------|---------------------------------------------------|
| Company   | : ALADDIN SCIENTIFIC CORPORATION                  |
| Address   | : 14078 Meridian Parkway,<br>Riverside, CA. 92518 |
| Telephone | : +1 (833) 552-7181                               |
| Fax       | : no data available                               |

### 1.4 Emergency telephone number

|                            |                  |
|----------------------------|------------------|
| CHEMTREC®, Inside the USA  | : 1-800-424-9300 |
| CHEMTREC®, Outside the USA | :                |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

|      |                                         |
|------|-----------------------------------------|
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation                  |
| H319 | Causes serious eye irritation           |
| H335 | May cause respiratory irritation        |

Precautionary statement(s)

|      |                                                 |
|------|-------------------------------------------------|
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
|------|-------------------------------------------------|

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|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                 |
| P264           | Wash hands [and ...] thoroughly after handling.                                                                                  |
| P271           | Use only outdoors or in a well-ventilated area.                                                                                  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P321           | Specific treatment (see ... on this label).                                                                                      |
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P302+P352      | IF ON SKIN: wash with plenty of water.                                                                                           |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                                         |
| P405           | Store locked up.                                                                                                                 |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.                                                                 |
| P501           | Dispose of contents/container to an approved waste disposal plant.                                                               |
| P264+P265      | Wash hands [and ...] thoroughly after handling. Do not touch eyes.                                                               |
| P305+P354+P338 | IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P337+P317      | If eye irritation persists: Get medical help.                                                                                    |
| P332+P317      | If skin irritation occurs: Get medical help.                                                                                     |
| P302+P361+P354 | IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes.                    |
| P316           | Get emergency medical help immediately.                                                                                          |
| P319           | Get medical help if you feel unwell.                                                                                             |

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                       |
|------------------|-------------------------------------------------------|
| Synonyms         | : Trisodium Phosphate dodecahydrate TSP               |
| Formula          | : Na <sub>3</sub> PO <sub>4</sub> ·12H <sub>2</sub> O |
| Molecular weight | : 380.12                                              |
| CAS No.          | : 10101-89-0                                          |
| EC-NO.           | : 231-509-8                                           |

| Component                               | Classification    | Concentration                      |
|-----------------------------------------|-------------------|------------------------------------|
| Sodium phosphate tribasic dodecahydrate |                   |                                    |
|                                         | no data available | PrimorTrace™, ≥99.99% metals basis |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

no data available

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

no data available

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.3 Advice for firefighters

Hazardous decomposition products formed under fire conditions.- Oxides of phosphorus, Sodium oxides

### 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate

ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

## 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

no data available

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

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

Keep container tightly closed in a dry and well-ventilated place.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

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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. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

no data available

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                                                 |                                                              |
|-------------------------------------------------|--------------------------------------------------------------|
| a) Appearance                                   | form: crystal color: White                                   |
| b) Odour                                        | no data available                                            |
| c) Odour Threshold                              | no data available                                            |
| d) pH                                           | 13 at 190.1 g/l at 25 °C (77 °F)                             |
| e) Melting point/freezing point                 | 75°C                                                         |
| f) Initial boiling point and boiling range      | no data available                                            |
| g) Flash point                                  | no data available                                            |
| h) Evaporation rate                             | no data available                                            |
| i) Flammability (solid, gas)                    | no data available                                            |
| j) Upper/lower flammability or explosive limits | no data available                                            |
| k) Vapour pressure                              | no data available                                            |
| l) Vapour density                               | no data available                                            |
| m) Relative density                             | 1.62 g/mL at 25 °C (77 °F)                                   |
| n) Water solubility                             | Soluble in water, insoluble in ethanol and carbon disulfide. |
| o) Partition coefficient: n-octanol/water       | no data available                                            |
| p) Auto-ignition temperature                    | no data available                                            |
| q) Decomposition temperature                    | no data available                                            |
| r) Viscosity                                    | no data available                                            |
| s) Explosive properties N                       | no data available                                            |
| t) Oxidizing properties N                       | no data available                                            |

**9.2 Other safety information**

no data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

no data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

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**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

no data available

**10.5 Incompatible materials**

Strong acids

**10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions.- Oxides of phosphorus, Sodium oxides

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous

**Additional Information**

no data available

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**SECTION 12: Ecological information****12.1 Toxicity**

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

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**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

**SECTION 13:**

**13.1 Disposal considerations**

**Product**

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.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

**DOT (US)**

|                                         |                                            |                                             |
|-----------------------------------------|--------------------------------------------|---------------------------------------------|
| UN number: 3262                         | Packing group: III                         | Class: 8                                    |
| Proper shipping name: no data available | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: No               |                                            |                                             |

**IMDG**

|                                         |                    |                           |
|-----------------------------------------|--------------------|---------------------------|
| UN number: 3262                         | Packing group: III | EMS-No: no data available |
| Proper shipping name: no data available |                    |                           |

**IATA**

|                                         |                    |          |
|-----------------------------------------|--------------------|----------|
| UN number: 3262                         | Packing group: III | Class: 8 |
| Proper shipping name: no data available |                    |          |

**SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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## SECTION 16: Other information

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Regulatory Affairs

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