

SAFETY DATA SHEET

TRISODIUM PHOSPHATE ANHYDROUS/CRYSTAL (ALL GRADES)

MTSP100

1. Identification of the substance/preparation and of the company/undertaking

Product name	: TRISODIUM PHOSPHATE ANHYDROUS/CRYSTAL (ALL GRADES)	Supplier	: Intra Laboratories Ltd Unit 8, Devonshire Meadows Plymouth Devon PL6 7EZ
Chemical product name	: TRISODIUM ORTHOPHOSPHATE		
Synonyms	: Tribasic sodium phosphate trisodic orthophosphate trisodic monophosphate E339		
Chemical formula	: Na <sub>3</sub> PO <sub>4</sub>	Telephone No.	: 01752724109
		Molecular Mass	: 163.9

2. Composition/information on ingredients

Substance/Preparation : Substance					
Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) TRISODIUM ORTHOPHOSPHATE		>=97	231-509-8	Xi	R36/37/38

\* Occupational Exposure Limit(s), if available, are listed in Section 8

EINECS Number 231-509-8

3. Hazards identification

Human health hazards : Irritating to eyes, respiratory system and skin.

4. First-aid measures

First-Aid measures

Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
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.
Skin contact	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.
Eye Contact	: In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention.
Effects and symptoms	
Inhalation	: Hazardous in case of inhalation (lung irritant). Inhalation of dust will produce irritation to gastrointestinal or respiratory tract, characterized by burning, sneezing and coughing. Overexposure by inhalation may cause respiratory irritation.
Ingestion	: May be fatal if swallowed. May cause burns to mouth, throat and stomach.
Skin contact	: Hazardous in case of skin contact (irritant). corrosive The amount of tissue damage depends upon length of contact. Skin contact can produce inflammation and blistering. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Eye Contact	: Hazardous in case of eye contact (irritant). Corrosive to eyes. Eye contact can result in corneal damage or blindness.
Aggravating conditions	: Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction or dermatitis. Repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage.

## 5. Fire-fighting measures

### Extinguishing Media

- Suitable** : SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
- Hazardous thermal (de)composition products** : May release toxic gases including phosphates, metallic oxides.
- Special fire-fighting procedures** : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.
- Protection of fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

## 6. Accidental release measures

- Personal Precautions** : Splash goggles. Protective overalls/suit. Dust respirator. Boots. Gloves. If there is a significant airborne concentration then suitable breathing apparatus should be used to avoid inhalation of the product. Select appropriate protective clothing for the size of the spillage.
- Environmental precautions and cleanup methods** : Corrosive solid.  
Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapours. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Dispose of according to all federal, state and local applicable regulations. **Do not attempt to neutralise the spillage with acids unless you are sure it is safe to do so.** Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.  
: Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

## 7. Handling and storage

- Handling** : Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers may still contain significant residual amounts of the product. Ground all equipment containing material. Do not ingest. Do not breathe dust. Never add water to this product. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as metals, moisture.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended use** : Use original container.

## 8. Exposure controls/personal protection

- Engineering measures** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Workplace Exposure Limits** : Not available.
- Personal protective equipment**
- Respiratory system** : Dust respirator if conditions are dusty.
- Skin and body** : Synthetic apron.
- Hands** : PVC or rubber gloves.
- Eyes** : Chemical goggles.

## 9. Physical and chemical properties

- Physical state** : Solid. (Hygroscopic powder).
- Colour** : White.
- Odour** : Odourless.
- Melting point** : 600°C (1112°F)
- Density** : 1.2 g/cm<sup>3</sup>
- Solubility** : 8g/100g water at 20°C
- pH** : 12.1 [Basic.]
- Flash point** : Not available.

## 10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Water, moisture. Keep away from heat.
- Materials to avoid** : Reactive with metals (Aluminium).
- Hazardous decomposition products** : May release toxic gases including phosphates, metallic oxides.

## 11. Toxicological information

### Local effects

**Skin irritation** : Hazardous in case of skin contact (irritant).

**Eye irritation** : Hazardous in case of eye contact (irritant).

**Acute toxicity** : Acute oral toxicity (LD50): 7400 mg/kg [Rat].  
Acute dermal toxicity (LD50): >7940 mg/kg [Rabbit].

**Chronic toxicity** : Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction or dermatitis. Repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage.

## 12. Ecological information

**Ecotoxicity** : Not available.

## 13. Disposal considerations

**Methods of disposal ; Waste of residues ; Contaminated packaging** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Waste Classification** : Not applicable.

## 14. Transport information

### International transport regulations

**UN : UN number** Not regulated.

**UN : Proper shipping name** -

**ADR/RID : Class** -

**IMDG : Proper shipping name** -

**IATA : Proper shipping name** -

**IATA : Additional Information** -

## 15. Regulatory information

### EU Regulations

**Hazard symbol(s)** : 

**Classification** : Irritant

**Risk Phrases** : R36/37/38- Irritating to eyes, respiratory system and skin.

**Safety Phrases** : S22- Do not breathe dust.  
S24- Avoid contact with skin.  
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Product Use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.  
- Consumer applications, Industrial applications.

## 16. Other information

### HISTORY

**Date of printing** : 09/04/2009.

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### Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

***CHANGES SINCE PREVIOUS VERSIONS:***

Version 2: Risk and Safety phrases added.  
R37 added

**Version** 3.01

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