

**Safety Data Sheet**  
**According to Hazard Communication Standard (29 CFR 1910.1200)**

Trisodium Phosphate

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## 1. Product and Company Identification

<b>Material name</b>	Trisodium Phosphate
<b>CAS #</b>	See section 3
<b>Product code</b>	-
<b>Product use</b>	Used as soft water agent, cleaning agent in electroplating, color fixer in fabric dyeing and flux in enamel ware manufacturing, and so on.
<b>Manufacturer/Supplier</b>	
<b>Supplier:</b>	Trice Chemicals Industrial LLC
<b>Address:</b>	Ras Al Khaimah – U.A.E
<b>Contact person(E-mail):</b>	sales@tricechemicals.com
<b>Telephone:</b>	+971 07 2589345
<b>Fax:</b>	+971 07 2435335

## 2. Hazards identification

### GHS classification

<b>Physical hazards</b>	Not classified	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category2A
	Specific target organ toxicity after single exposure	Category 3
<b>Environmental hazards</b>	Not classified	

### GHS label elements

#### Hazard Pictograms



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

### Precautionary statement

<b>Prevention</b>	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye protection/face protection.
<b>Response</b>	If on skin: Wash with plenty of water.

If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Call a poison center /doctor if you feel unwell.  
 If skin irritation occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of contents/container in according with local regulation.

**Storage**

**Disposal**

**3. Composition / Information on Ingredients**

Components	CAS#	Percent
Trisodium Phosphate	10101-89-0	98%

**4. First Aid Measures**

**First aid procedures**

**Eye contact** Rinse immediately with plenty of water. Seek medical advice.  
**Skin contact** Rinse with plenty of water, remove contaminated clothing.  
**Inhalation** Fresh air, rest and seek medical advice.  
**Ingestion** Immediately make victim drink water (two glasses at most). Consult a physician.

**Notes to physician**

Treat symptoms.

**5. Fire Fighting Measure**

**Flammable properties**

Trisodium phosphate is not flammable.

**Extinguishing media**

**Suitable extinguishing media** At fire in the surroundings: all extinguishing agents permitted.

**Unsuitable extinguishing media** Not available.

**Firefighting equipment/instructions**

Use water spray to cool unopened containers. Wear self contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Oxides of phosphorus, Sodium oxides.

**6. Accidental Release Measures**

**Personal precautions**

Avoid contact with eyes, skin and respiratory system. Use personal protection equipment. For personal protection see section 8.

**Environmental precautions**

Trisodium phosphate should not arrive into the soil or the aquatic environment.

**Methods for cleaning up**

Shovel up material and recycle if possible. Dispose of contaminated material according to the prescriptions.

**7. Handling and Storage**

**Handling**

To be transported in the original packaging. For precautions see section 2.2.

**Storage**

To be stored protected from humidity.

**8. Exposure Controls / Personal Protection**

**Control parameters:**

**OCCUPATIONAL EXPOSURE LIMITS (OEL)**

**INGREDIENT DATA:**

Not Available

**EMERGENCY LIMITS:**

Ingredient	TEEL-1	TEEL-2	TEEL-3
Trisodium Phosphate	22mg/m <sup>3</sup>	240 mg/m <sup>3</sup>	1500mg/m <sup>3</sup>

Ingredient	Original IDLH	Revised IDLH
Trisodium Phosphate	Not Available	Not Available

**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.

**Individual protection measures, such as personal protective equipment:**

**Eye / face protection** Safety glasses; with dust: protective glasses.  
**Skin protection** Suitable gloves. Protective clothing.  
**Respiratory protection** In case of raising of dust wear dust protection mask.  
**General hygiene considerations** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**9. Physical & Chemical Properties****Appearance**

**Physical state** Solid  
**Form** Granular crystals  
**Color** White or colorless  
**Odor** Not available  
**Odor threshold** Not available  
**pH** 12.1(1% solution)  
**Vapor pressure** Not available  
**Vapor density** Not available  
**Boiling point** Not available  
**Melting point/Freezing point** 73.4° C  
**Solubility (water)** Soluble  
**Specific gravity** Not available  
**Relative density** 1.62  
**Partition coefficient** Not available  
**Flash point** Not available  
**Flammability limits in air, upper, %by volume** Not available  
**Flammability limits in air, lower, % by volume** Not available  
**Auto-ignition temperature** Not available  
**VOC** Not available  
**Percent volatile** Not available  
**Molecular Formula:** Na<sub>3</sub>PO<sub>4</sub>•12H<sub>2</sub>O  
**Molecular Weight:** 380.14  
**Other data**

Viscosity

Not available

## 10. Chemical Stability & Reactivity Information

Reactivity

The substance is stable under normal storage and handling conditions.

Chemical stability

Alkaline reaction with water.

Conditions to avoid

Incompatible materials.

Incompatible materials

Reacts intensely alkaline in case of admission of water, caustic soda lye which is incorporated in the crystal is liberated.

Hazardous decomposition products

Oxides of phosphorus, Sodium oxides.

Possibility of hazardous reactions

No dangerous reactions known.

## 11. Toxicological Information

**Toxicokinetics, metabolism and distribution:**

Non-human toxicological data:

Not available

**Information on toxicological effects:**

Acute toxicity:

LD50(Oral, Rat):

> 2000 mg/kg bw

LD50(Dermal, Rat):

> 2000 mg/kg bw

LC50(Inhalation, Rat):

> 0.83 mg/L air (analytical) 4h

Skin corrosion/Irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitization:

Not classified

Germ cell mutagenicity:

Not classified

Carcinogenicity:

Not classified

Reproductive toxicity:

Not classified

STOT- single exposure:

May cause respiratory irritation.

STOT-repeated exposure:

Not classified

Aspiration hazard:

Not classified

## 12. Ecological Information

**Toxicity:**

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	> 100 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	> 100 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 100 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:

Not available.

Bioaccumulative potential:

Not available.

Mobility in soil:

The product is soluble in water.

Results of PBT&vPvB assessment:

PBT assessment does not apply.

Other adverse effects:

No known significant effects or critical hazards.

## 13. Disposal Considerations

Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after

container is emptied.

## 14. Transport Information

### DOT

#### Basic shipping requirements:

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	No

### IATA

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	No

### IMDG

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	No

## 15. Regulatory Information

### Safety, health and environmental regulations / legislation specific for the substance or mixture

Trisodium phosphate(10101-89-0) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
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## 16. Other Information

### HMIS® ratings

Health: 2  
Flammability: 1  
Physical hazard: 0

### NFPA ratings

Health: 2  
Flammability: 1  
Instability: 0

### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

### Issue date

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