

# Material Safety Data Sheet

Sodium Tripolyphosphate

## 1: Chemical Product and Company Identification

Product Name: Sodium Tripolyphosphate

### Contact Information:

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## 2: Composition and Information on Ingredients

**P<sub>2</sub>O<sub>5</sub> content (on dry)**

: 57% minimum.

**Na<sub>5</sub>P<sub>3</sub>O<sub>10</sub> content**

: 94% Minimum for powder and white granular STPP.

**Whiteness**

: 96% minimum for powder and white granular STPP.

**Insoluble matters in water** : 0.1% maximum.

**Density** : 0.35 to 1.10

## 3: Hazards Identification

### Potential Acute Health Effects:

Irritation in case of eye contact : R36.

Slightly irritation in case of skin contact : R38.

### Potential Chronic Health Effects:

Carcinogenic effects : not available.

Mutagenic effects : not available.

Teratogenic effects : not available.

Developmental toxicity : not available.

## 4: First Aid Measures

### In case of inhalation:

Breathe the fresh air and stay in rest. Seek medical advice if any symptoms follow inhalation.

### In case of contact with skin:

Wash with plenty of water

### In case of contact with eyes:

Rinse with plenty of water and seek medical advice if irritation persists.

### In case of ingestion:

Rinse mouth with clean water. Drink water. Call for medical assistance if any symptoms follow ingestion.

## 5: Fire Fighting Measures

### Flammability of the Product:

The product itself is not flammable.

### Suitable ways of fire extinction:

In case of any fire (packaging), all methods of extinction are allowed (water spray, CO<sub>2</sub>,

powder...).

**Specific risks:**

None, non combustible.

## 6: Accidental Release Measures

**Personal precaution:**

Do not inhale. Avoid contact with eyes and skin by using rubber gloves and wearing safety glasses.

**Environmental precaution:**

Recover the product and avoid its release into the sewage network or in the aquatic environment.

**Methods for cleaning up:**

Take up mechanically. Rinse away residues with plenty water.

## 7: Handling and Storage

**Handling:**

No particular procedure. In case of insufficient ventilation wear an anti-dust mask.

**Storage:**

The STPP can be stored two years from the date of production, provided it is conserved in its original packaging in a dry well-ventilated warehouse. The product must be protected from moisture and volatile substances. Nevertheless, it is recommended not to store the material more than three months in the open air.

**Conditioning:**

In 25/50 kg polypropylene bags, in 450 kg (light STPP) and 1000 to 1250 kg (dense STPP) polypropylene Big-Bags with polyethylene inner bag or in bulk (tanker).

## 8: Exposure Controls/Personal Protection

**Respiratory protection:**

Anti-dust mask in accordance with the European Standard EN 14.

**Skin protection:**

Use rubber gloves, wear safety shoes.

Wear appropriate protective clothing to prevent skin exposure.

**Eye Protection:**

Goggles with safety glasses according to European Standard EN166.

Safety showers and emergency eye wash fountains in the proximity.

**Others :**

Adequate ventilation to avoid dust.

**Exposure limits :**

Not available.

## 9: Physical and Chemical Properties

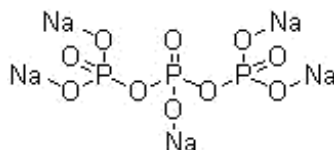
**Appearance** : white powder, white granules or colored granules.

**Odour** : odourless.

**Molecular Formula** :  $\text{Na}_5\text{P}_3\text{O}_{10}$

**Molecular weight** : 367,86

**Molecular structure :**



<b>Melting point</b>	: 622° C (1151.6°F).
<b>Flash point</b>	: non-flammable.
<b>Bulk density</b>	: 0.350 to 0.420 g/cm <sup>3</sup> for light granular. : 0.600 to 0.850 g/cm <sup>3</sup> for dense powder. : 0.900 to 1.100 g/cm <sup>3</sup> for dense white granules.
<b>Solubility in water</b>	: 14 g per 100 g 20°C.
<b>pH (1% solution)</b>	: 9 to 10.
<b>Combustive properties</b>	: non combustive.
<b>Vapour Pressure</b>	: Not applicable.
<b>Vapour Density</b>	: Not available.
<b>Evaporation Rate</b>	: Not available.
<b>Viscosity</b>	: Not applicable.
<b>Boiling Point</b>	: Not applicable.

## 10: Stability and Reactivity Data

### Stability :

- Stable in normal conditions of usage
- hydrolyses in aqueous solution at a temperature of more than 80°C.
- Hygroscopic: absorbs moisture from the air.

### Thermal decomposition Conditions to be avoided

: > 622 °C  
: Moisture, fire.

### Materials to be avoided

: Non  
e.

### Decomposition hazard

: Non  
e.

### Incompatibilities with Other Materials

: Strong oxidizing agents, strong acids.

## 11: Toxicological Information

### Toxicity data :

Rat Oral LD50	: 2000 mg kg <sup>-1</sup> *
Rabbit Dermal	: 4640 mg kg <sup>-1</sup> *

LD50

**Risk phrases :**

R36 : Irritating to eyes.  
: Irritating to  
R37 respiratory system.  
R38 : Irritating to skin.

## 12: Ecological Information

Persistence and degradability: No data available  
Ecotoxicity: No data available. No data available.  
Environmental: No information reported.  
Physical: No information available.  
Other: No information available.

## 13: Disposal Considerations

**Treatment procedures:**

No specific restrictions.

**Packaging:**

The packaging used for STPP is recyclable.

## 14: Transport Information

**UN number**

: Not regulated.

**IMO/IMDG Code**

: Not regulated.

**ADR/RI/ADNR**

: Not regulated.

**Packaging**

: In 25/50 kg polypropylene bags, or in 1000 kg Big-Bags

The STPP is not classified as a substance hazardous for transport however :  
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice : S26.  
- For more security wear suitable protective clothing : S36.

## 15: Other Regulatory Information

**Hazard symbols :**

Xi: Irritant

**Risk phrases :** R36-R37-R38

: Irritating to eyes, respiratory system and skin.

**Safety phrases :**

**S26** : In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

**S28** : After contact with skin, wash immediately with plenty of soap-suds

**S36** : Wear suitable protective clothing.

**S37** : Wear suitable gloves.

**S38** : In case of insufficient ventilation, wear suitable respiratory equipment.

## 16: Other Information

This information is based upon the present state of our knowledge. This MSDS has been compiled and is solely intended for this product.

**Notice to reader:**

Employers should use this information only as a supplement to other information gathered by them. And should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

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