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## Material Safety Data Sheet

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### Sodium Hexametaphosphate Granular

#### Technical Grade

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## 1 Product and company identification

PRODUCT NAME: **SODIUM HEXAMETAPHOSPHATE GRANULAR  
TECHNICAL GRADE**

Use: Water treatment  
Corrosion inhibitor. Scale inhibitor  
Dispersion of slurries.  
Manufacture of detergents.  
Textile industry.  
Refractory materials.  
(For further information, refer to the product technical data sheet).

SUPPLIER / SELLER

Name: **TRI-CHEM INDUSTRIES, INC.**  
Address: P.O. Box 2056  
Coppell, TX, 75019  
Telephone number: 972-745-6875  
Fax number: 972-745-6870

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## 2 Composition / information on ingredients

SUBSTANCE

Common chemical name: Polyphosphoric acid, Sodium salts  
EINECS N°: 272-808-3  
Synonyms: Sodium polyphosphate  
CAS number: 68915-31-1

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### 3 Hazards identification

#### MOST IMPORTANT HAZARDS

Adverse human health effects:

The dust may be irritating to the respiratory system. Dust may cause slight irritation to the ocular mucous membranes due to the presence of a foreign body.

Slightly irritating to skin.

Environmental effects:

Does not present any particular risk, provided it is handles in accordance with good occupational hygiene and safety practice and that precautions are taken to avoid the inhalation of dust.

Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.

#### PHYSICAL AND CHEMICAL HAZARDS

Fire or explosion:

NO particular fire or explosion hazard

Specific hazards:

According to EC criteria, this product is not classified as a "hazardous substance".

Further information:

In the presence of water, if spilled, this product will cause the floor to be slippery.

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### 4 First-aid measures

Inhalation:

Not specifically applicable

Skin contact:

Rinse with plenty of water

Eye contact:

Rinse with water whilst keeping the eyes wide open.

Ingestion:

Rinse mouth out with water. If the person is fully conscious, make him/her drink plenty of water. NEVER give an unconscious person anything to drink.

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### 5 Fire – fighting measures

#### EXTINGUISHING MEDIA

Suitable:	All extinguishing agents can be used.
Not suitable:	None. If a fire is close by, use suitable extinguishing agents.
Specific hazards:	Not combustible. Does not present any particular risk in the event of a fire.
Specific fire fighting methods:	Do not dispose of fire-fighting water in the environment.

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### 6 Accidental release measures

Personal precautions:	Avoid contact with eyes, skin and respiratory system.
Personal protective equipment:	Safety glasses and appropriate gloves
Environmental precautions:	Avoid direct discharge into drains. Prevent the product from spreading into the environment.

#### METHODS FOR CLEANUP

Prohibited:	Do NOT put the spilled material back into the original container for re-use.
Recovery:	Sweep up or vacuum up the product. Avoid creating or spreading dust. Transfer the product into a spare container suitably labeled.
Cleaning/Decontamination:	If necessary, wash with water following recovery.
Disposal:	Dispose of materials or solid residues at an authorized site. Do NOT discharge into drains.
Further information:	The moist product may cause the floor to be slippery.

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### 7 Handling and storage

#### HANDLING

Technical measures:	Does not necessitate any specific/particular technical measures, other than those concerning the handling of powders.
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Measures:

Avoid contact with water or humidity.

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Measures:

Avoid the formation or spread of dust in the atmosphere.

Safe handling advice:

Handle and use in accordance with good occupational hygiene and safety practice.

#### STORAGE

Technical measures:

Do not stack pallets.

Take all necessary precautions to avoid the accidental release of the product outside, due to the rupture of containers or transfer systems.

#### STORAGE CONDITIONS

Recommended:

Store in a cool, dry area protected from humidity and bad weather conditions.

Incompatible products:

None, to our knowledge.

Packaging:

Product must only be kept in the original packaging. Paper bag lined with a plastic film; big-bag.

#### PACKAGING MATERIALS

Recommended:

Plastic materials (polyethylene, polypropylene).

Stainless steel.

Not suitable:

Ordinary steel.

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## 8 Exposure controls / personal protection

Engineering measures:

Extraction to remove dust at its source.

No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection:

If dust is generated, respiratory protective device with a particle filter.

Hand protection:

Safety glasses.

Skin and body protection:

Impermeable clothing.

Collective emergency equipment:

Eye fountain.

Further information:

The user is responsible for monitoring the working environment in accordance with local laws and regulations.

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### 9 Physical and chemical properties

#### APPEARANCE

Physical state:	Solid
Form:	Granules
Size:	0.1 – 2.5 mm
Color:	White
Odor:	None
pH:	6.3 – 7.2 (Aqueous solution – 10 g/l)

#### SPECIFIC TEMPERATURES

Melting:	Approx. 600°C
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#### FLAMMABILITY CHARACTERISTICS

Flash point:	Not applicable (non-flammable solid)
Oxidizing properties:	Not applicable

#### EXPLOSION PROPERTIES

Explosive limits in air:	Not applicable (non-flammable solid)
Apparent specific gravity:	0.8 – 1.5 kg/dm <sup>3</sup> (Untamped product)

#### SOLUBILITY

In water:	> 500 g/l at 25°C
In organic solvents:	Not determined
Hygroscopicity:	Hygroscopic product

Further information:	Tends to cake (solidify) under humid conditions Dissolves slowly
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### 10 Stability and reactivity

Stability:	Stable at ambient temperature and under normal conditions of use.
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#### HAZARDOUS REACTIONS

Conditions to avoid:	No dangerous reactions known under normal conditions of use.
Materials to avoid:	No dangerous reaction known with common products.

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## 11 Toxicological information

Acute toxicity:	LD 50 oral (Mouse): 3700 mg/kg. (Published data)
LOCAL EFFECTS	
Dusts:	Slightly irritating to the respiratory system
Dry product:	May cause slight temporary irritation to ocular mucous membranes May cause irritation to the digestive tract
Further information:	No particular risk when handled in accordance with good occupational hygiene practice

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## 12 Ecological information

MOBILITY	
Expected behavior of the product:	Ultimate destination of the product: WATER
DEGRADABILITY	
Abiotic degradation	
Hydrolysis:	Slowly hydrolyses on contact with water.
Other physic-chemical reactions:	Converted in the aquatic environment into: (PO <sub>4</sub> ) Salts
BIODEGRADABILITY	
Persistence:	Substance is totally biotransformed (metabolized)
BIOACCUMULATION	
Octanol/water partition coefficient:	Not applicable
ECOTOXICITY	
Effects on the aquatic environment:	No specific information available; however, by analogy, this product is not considered to present any particular risk to the aquatic environment.

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## 13 Disposal considerations

RESIDUES FROM PRODUCT

Prohibition:

Do not allow the product to be released into the environment.

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Prohibition:

Discharging waste into rivers and drains is FORBIDDEN

Destruction/Disposal:

Recycle the material as far as possible

For solid waste, dispose of in accordance with relevant local regulations

#### CONTAMINATED PACKAGING

Prohibition:

Do NOT dispose of with domestic waste

Do not burn empty packaging

Decontamination/cleaning:

Empty the packaging completely prior to disposal

Destruction/Disposal:

For bags, recycle following cleaning or dispose of at an authorized site

For bulk containers, reuse or recycle following decontamination

NOTE:

The user's attention is drawn to the possible existence of local regulations regarding disposal

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## 14 Transport information

#### INTERNATIONAL REGULATIONS

Land

Rail/road (RID/ADR):

NOT restricted

Sea (IMO/IMDG):

NOT restricted

Air (ICAO-IATA):

NOT restricted

NOTE:

The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

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## 15 Regulatory information

#### LABELLING

EC regulations:

Mandatory labeling (self-classification) of hazardous substances:  
NOT APPLICABLE

NOTE: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Material Safety Data Sheet. The user's

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NOTE cont: attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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## 16 Other information

### USES

Prohibited: This product is only intended for industrial use  
This grade is not intended to be used in food products

Chemical formula:  $\text{Na}(\text{Na PO}_3)_n \text{ONa}$  (n=12)

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This Material Safety Data Sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his/her activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his/her obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely the user's responsibility.