

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Substance name: Tripotassium orthophosphate
EC-No.: 231-907-1
CAS-No.: 7778-53-2

Relevant identified uses of the substance or mixture and uses advised against:

Recommended use: Food additive.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (REGULATION (EC) No 1272/2008):

Serious eye damage , Category 1- H318: Causes serious eye damage.

Specific target organ toxicity - single exposure , Category 3, Respiratory system- H335: May cause respiratory irritation.

Label elements:

Labelling (REGULATION (EC) No 1272/2008):

Hazard pictograms:



Signal word: Danger

Hazard statements: H318 Causes serious eye damage.
H335 May cause respiratory irritation.

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Precautionary statements:

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards:

None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Substance name: Tripotassium orthophosphate
CAS No.: 7778-53-2
EC-No.: 231-907-1
Chemical nature: Inorganic.

Components:

Chemical name	CAS No.	EC No.	Concentration (% w/w)
Tripotassium Orthophosphate	7778-53-2	231-907-1	> = 90 - < = 100

4. FIRST AID MEASURES

Description of first aid measures:

General advice:

Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
Never give anything by mouth to an unconscious person.

If inhaled:

If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.

In case of skin contact:

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

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In case of eye contact: Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If swallowed: Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
If symptoms persist, call a physician.
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed:

Risks: Causes serious eye damage.
May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed, if necessary:

Treatment: For specialist advice physicians should contact the Poisons Information Service.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture:

Specific hazards during firefighting: No information available.

Hazardous combustion products: No hazardous combustion products are known

Advice for firefighters:

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

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Environmental precautions: Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Methods for cleaning up: Pick up and arrange disposal without creating dust.
Keep in suitable, closed containers for disposal.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

Reference to other sections: For personal protection see section 8.

7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Do not breathe vapours/dust.
Avoid exceeding the given occupational exposure limits (see section 8).
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion: Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust is formed.
No smoking.

Hygiene measures: Avoid contact with skin, eyes and clothing.
When using do not eat or drink.
Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers: Store in original container.

Keep tightly closed. Keep in a dry, cool and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations/working materials must comply with the technological safety standards.
Keep tightly closed.

Advice on common storage: No special restrictions on storage with other products.

Further information on storage stability: No decomposition if stored and applied as directed.

Specific end use(s): For further information, refer to the product technical data sheet.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	Contains no substances with occupational exposure limit values.
Exposure controls:	
Personal protective equipment:	
Eye/face protection:	Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing.
Hand protection:	
Remarks:	Impervious gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection:	Dust impervious protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
Respiratory protection:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Equipment should conform to EN 143.
Filter type:	Particulates type (P).
Protective measures:	Wear suitable protective equipment. Do not breathe dust. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance (Form):	Powder
Colour:	White
Odour:	Odourless
pH (10 g/l, 20 °C):	11.5 - 12.3. Concentration: 1%
Melting point/range:	1,340 °C
Boiling point/boiling range:	Not applicable
Flash point:	Not applicable
Flammability (solid, gas):	Not expected to form explosive dust-air mixtures.
Burning number:	1
Bulk density:	350 kg/m ³ (20 °C)
Water solubility:	Soluble
Explosive properties:	Regulatory information: Not explosive. International transport regulations: Not explosive.
Corrosive to metals:	Not corrosive to metals.

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10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: No decomposition if stored normally.

Possibility of hazardous reactions:

Hazardous reaction: No hazards to be specially mentioned.
No dangerous reaction known under conditions of normal use.

Conditions to avoid: No data available.

Incompatible materials:

Materials to avoid: None known.

Hazardous decomposition products:

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity: Not classified based on available information.

Components:

Tripotassium orthophosphate:

Acute oral toxicity: LD50 (Rat, male and female): 4,260 mg/kg

Skin corrosion/irritation: Not classified based on available information.

Components:

Tripotassium orthophosphate:

Species: Rabbit.

Results: No skin irritation.

GLP: Yes.

Serious eye damage/eye irritation: Causes serious eye damage.

Components:

Tripotassium orthophosphate:

Result: Irreversible effects on the eye.

Respiratory or skin sensitisation:

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

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Germ cell mutagenicity:	Not classified based on available information.
Reproductive toxicity:	Not classified based on available information.
STOT - single exposure:	May cause respiratory irritation.
Components:	
Tripotassium orthophosphate:	
Assessment:	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
STOT - repeated exposure:	Not classified based on available information.
Aspiration toxicity:	Not classified based on available information.

12. ECOLOGICAL INFORMATION

Toxicity:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Results of PBT and vPvB assessment:	Not relevant.
Other adverse effects:	No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Waste from residues (Product):	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging:	Empty remaining contents. Dispose of as unused product.

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14. TRANSPORT INFORMATION

UN number: Not regulated as a dangerous good.

UN proper shipping name: Not regulated as a dangerous good.

Transport hazard class(es): Not regulated as a dangerous good.

Packing group: Not regulated as a dangerous good.

Environmental hazards: Not regulated as a dangerous good.

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

15. REGULATORY INFORMATION

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

Relevant EU provisions transposed through retained EU law:

REACH- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EC) No 2019/1021 on persistent organic pollutants (recast): Not applicable.

UK REACH List of substances subject to authorisation (Annex XIV): Not applicable.

Seveso III: Directive (2012/18/E) implemented by Control of Major Accident Hazards Regulations 2015 (COMAH):

Not applicable.

Volatile organic compounds: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control).

Not applicable.

Chemical Safety Assessment: No data available.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's 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

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.