

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: Zinc Phosphate (Extra Pure)

CAS#: 7779-90-0

Synonym:

Chemical Name:

Chemical Formula:

Composition and Information on Ingredients

Name	Contents	S.K.U	EC No	Annex No	Classification
Trizinc bis(orthophosphate)	100 %	GCS-6428	231-944-3	030-011-00-6	N; R50-53 ----- Aquatic Acute 1 _ H400 Aquatic Chronic 1 _ H410

Hazards Identification

Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45: Classification: N; R50-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Environmental hazards:

Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400 Hazardous to the aquatic environment - Chronic hazard -

Category 1 - Warning (CLP : Aquatic Chronic 1) H410

Label elements

Labelling EC 67/548 or EC

1999/45 Symbol(s): N:

Dangerous for the environment

R Phrase(s): R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s): S60: This material and its container must be disposed of as hazardous waste. S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains: Trizinc bis (orthophosphate)

Labelling Regulation EC 1272/2008 (CLP)

Signal words: Warning

Hazard statements: H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements

- Prevention: P273: Avoid release to the environment.
- Response: P391: Collect spillage.
- Disposal considerations: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Contains: Trizinc bis(orthophosphate)

Other hazards

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

First Aid Measures

Description of first aid measures

Inhalation: Assure fresh air breathing. Allow the victim to rest.

Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use: Not expected to present a significant hazard under anticipated conditions of normal use.

Indication of any immediate medical attention and special treatment needed

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Fire and Explosion Data

Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Surrounding fires: Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture

Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

Advice for fire-fighters

Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures: Exercise caution when fighting any chemical fire. Avoid (reject) fire-

fighting water to enter environment.

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For emergency responders: Equip cleanup crew with proper protection. Ventilate area.
For non-emergency personnel: Evacuate unnecessary personnel.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

Methods and material for containment and cleaning up

On land, sweep or shovel into suitable containers. Minimize generation of dust.
Store away from other materials.

Reference to other sections

See section 8. Exposure controls/personal protection

Handling and Storage

Precautions for safe handling

Handling: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Technical protective measures: Provide good ventilation in process area to prevent formation of vapour.

Conditions for safe storage, including any incompatibilities

Storage: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Storage - away from: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

Specific end use(s)

Specific end use(s): None.

Exposure Controls/Personal Protection

Exposure controls

Personal protection:	Avoid all unnecessary exposure.
Respiratory protection:	Wear approved mask.
Hand protection:	Wear protective gloves.
Eye protection:	Chemical goggles or safety glasses.
Others:	When using, do not eat, drink or smoke.

Control parameters

Occupational Exposure Limits: No data available.

Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C:	Solid.
Colour:	White powder
Odour:	Odorless
Odour threshold:	No data available.
pH value :	Not applicable.
Melting point [°C]:	900 °C
Decomposition point [°C]:	N/A
Flash point [°C]:	N/A
Boiling point [°C]:	N/A
Vapour pressure [20°C]:	N/A
Vapour pressure mm/Hg:	N/A
Vapour density:	N/A
Density [g/cm ³]:	3,998
Relative density, gas (air=1):	N/A
Relative density, liquid (water=1):	N/A
Solubility in water [% weight]:	Insoluble in water
Solubility in water:	N/A
Log Pow octanol / water at 20°C:	No data available.
Solubility:	N/A

Other information

Explosive properties:	N/A
Explosion limits - upper [%]:	N/A
Explosion limits - lower [%]:	N/A
Oxidising properties:	No data available.

Stability and Reactivity Data

Reactivity:	Not established.
Chemical stability:	Stable under recommended storage conditions.
Hazardous reactions:	Not established.
Conditions to avoid:	Direct sunlight. Extremely high or low temperatures.
Materials to avoid:	Strong acids. Strong bases.
Hazardous decomposition products:	Fumes. Carbon monoxide. Carbon dioxide.

Toxicological Information

Information on toxicological effects

Acute toxicity	
Inhalation:	Based on available data, the classification criteria are

not met.

Dermal: Based on available data, the classification criteria are not met.

Corrosion: Based on available data, the classification criteria are not met.

Irritation: Based on available data, the classification criteria are not met.

Sensitization: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Toxic for reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Ecological Information

Toxicity information: Very toxic to aquatic life with long lasting effects.

Persistence - degradability: May cause long-term adverse effects in the environment.

Bioaccumulative potential: Not established.

Mobility in soil: Not established.

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Environmental precautions: Avoid release to the environment.

Disposal Considerations

Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Transformation Information

Land transport (ADR-RID)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN N°: 3077

H.I. nr: 90

ADR - Class: 9

Sea transport (IMDG) [English only]

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N°: 3077
IMO-IMDG - Class or division: 9: Miscellaneous dangerous substances and articles.
IMO-IMDG - Packing group: III

Air transport (ICAO-IATA) [English only]

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N°: 3077
IATA - Class or division: 9: Miscellaneous dangerous substances and articles.
IATA - Packing group: III

Other Regulatory Information

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

Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions. REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

Chemical Safety Assessment : It has not been carried out.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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