

# **SAFETY DATA SHEET**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

Product name Zinc phosphate

CAS number 7779-90-0

Synonyms Phosphoric acid, zinc salt; Trizinc bis(orthophosphate)

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

# 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

## 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

#### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Short-term (acute) aquatic hazard Category 1
Long-term (chronic) aquatic hazard Category 1

# 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Warning

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

Precautionary statements

Avoid release to the environment.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Zinc phosphate	Phosphoric acid, zinc salt; Trizinc bis (orthophosphate)	7779-90-0	<= 100%

#### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

## General advice

**If inhaled** Fresh air.

In case of skin contact Take off all contaminated clothing immediately. Rinse skin with

water/ shower.

**In case of eye contact** Rinse out with plenty of water. Remove contact lenses.

If swallowed Make victim drink water (two glasses at most). Consult doctor if feeling

unwell.

# 4.2 Most important symptoms and effects, both acute and delayed

No information available.

## 4.3 Indication of any immediate medical attention and special treatment needed

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# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide, dry powder, foam, water spray.

Unsuitable extinguishing media For this substance/mixture, no limitations of

extinguishing agents are given.

## 5.2 Specific hazards arising from the substance or mixture

Oxides of phosphorus, Zinc/zinc oxides.

# 5.3 Special protective equipment and precautions for firefighters

In the event of fire, wear self-contained breathing apparatus. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### 5.4 Further information

No information available.

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dusts, evacuate the danger area, observe emergency procedures, consult an expert.

# 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### 6.4 Reference to other sections

For disposal see Section 13.

## **SECTION 7: Handling and storage**

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# 7.1 Precautions for safe handling

#### Precautions on safe handling

Avoid contact with skin and eyes. Avoid dust formation. Provide good ventilation in process area to prevent formation of vapour.

## Hygiene measures

Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

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

#### Incompatibilities

Strong oxidizing agents.

## **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

# 8.2 Exposure controls

#### Appropriate engineering controls

No additional information available.

#### Personal protective equipment

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

# Skin protection

Wear suitable protective gloves and clothing.

#### **Body Protection**

Wear suitable protective gloves and clothing.

#### Respiratory protection

Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1.

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# Control of environmental exposure

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Solid powder

Appearance White Odor Odorless

Odor Threshold No data available pH No data available

Melting Point/Range 846 - 855 °C at ca.1.013 hPa

Boiling Point/Range No data available
Evaporation Rate Not applicable
Flammability (solid) No data available
Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure
Vapor Density
Density
Solubility
Partition coefficient;
No data available
Not applicable
3.998 g/cm3
2.7 g/l at 20 °C
No data available

n-octanol/water

Autoignition Temp No data available

Decomposition Temp ca. 50 °C

Viscosity Not applicable

Molecular Formula Zn3(PO4)2

Molecular Weight 386.11 g/mol

VOC Content(%) No data available

Oxidizing properties No data available

## 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

## 10.3 Possibility of hazardous reactions

No data available.

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## 10.4 Conditions to avoid

No data available.

# 10.5 Incompatible materials

Strong oxidizing agents.

# 10.6 Hazardous decomposition products

In the event of a fire, see Section 5.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Product Information, Component Information**

**Acute toxicity** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Zinc phosphate	> 5.000 mg/kg (Rat)	-	-	

#### Skin corrosion/irritation

No data available.

# Serious eye damage/eye irritation

No data available.

## Respiratory or skin sensitization

No data available.

## Germ cell mutagenicity

No data available.

Carcinogenicity

<u> </u>						
Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Zinc phosphate	7779-90-0	Not listed				

## Specific target organ toxicity - single exposure

No data available.

# Specific target organ toxicity - repeated exposure

No data available.

# Reproductive toxicity

No data available.

#### **Chronic effects**

No data available.

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### 11.2 Additional Information

The toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Product	Species	Test Results
Zinc phosphate	Freshwater fish (Oncorhynchus mykiss)	LD50 = 0.09 mg/L, 96 h

# 12.2 Persistence and degradability

No data available.

## 12.3 Bio accumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available.

#### **SECTION 13: Disposal considerations**

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **SECTION 14: Transport information**

DOT (US)

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UN-no UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

**IMDG** 

UN-no UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

**IATA** 

UN-no UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

**SARA 304 Emergency release notification** 

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No SARA Hazards.

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

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Not regulated.

## Safe Drinking Water Act

Not regulated.

# **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

## **US state regulations**

**US. Massachusetts RTK - Substance List** 

Not listed.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law** 

Not listed.

## **California Proposition 65**

Not listed.

#### **SECTION 16: Other information**

Issue date: 09/20/2024

#### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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