

# **SAFETY DATA SHEET**

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

### 1.1 Product identifiers

Product name Sodium Phosphate Tribasic Dodecahydrate

CAS number 10101-89-0

Synonyms Trisodium phosphate dodecahydrate; TSP

# 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)

Skin Corrosion/Irritation (Category 2)

Serious Eye Damage/Eye Irritation (Category 2)

Specific Target Organ Toxicity - single exposure (Category 3)

Target Organs: Respiratory System

# 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Warning

Hazard statements Causes skin irritation

Causes serious eye irritation May cause respiratory irritation

Precautionary statements

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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

Store locked up

Dispose of contents/container to an approved waste disposal plant

# 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
Sodium Phosphate Tribasic Dodecahydrate	Trisodium phosphate dodecahydrate, TSP	10101-89-0	> 98%

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

# 4.1 Description of first-aid measures

#### General advice

If inhaled Remove to fresh air. If not breathing, give artificial respiration. Get medical

attention immediately if symptoms occur.

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In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get

medical attention immediately if symptoms occur.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Clean mouth with water and drink afterwards plenty of water. Get medical

attention if symptoms occur.

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

None reasonably foreseeable.

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

Note to Physician: Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate

to local circumstances and the surrounding

environment. Dry chemical, Carbon dioxide (CO2),

alcohol-resistant foam or water spray.

**Unsuitable extinguishing media**No information available.

# 5.2 Specific hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition.

### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** No information available.

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# **Explosion limits**

Upper No information available.Lower No information available.

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available.
No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

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

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

# 6.2 Environmental precautions

Should not be released into the environment.

# 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

# Precautions on safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Ensure adequate ventilation. Avoid ingestion and inhalation.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

# Incompatibilities

Strong oxidizing agents.

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

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# 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

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### **Skin protection**

Wear appropriate protective gloves.

# **Body Protection**

Wear appropriate clothing to prevent skin exposure.

# Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Control of environmental exposure

Do not let product enter the drains.

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

# 9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance White
Odor Odorless

Odor Threshold No information available. pH 11.8-12 1% aq. solution

Melting Point/Range 75 °C / 167 °F

Boiling Point/Range No information available.

Evaporation Rate Not applicable.

Flammability (solid) No information available.

Flammability or explosive limit

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Upper No information available.
Lower No information available.

Vapor Pressure No information available.

Vapor Density

Density

1.62

Solubility

Soluble in water.

Partition coefficient;

n-octanol/water No information available.

Autoignition Temp No information available.

Decomposition Temp No information available.

Viscosity

Molecular Formula

Molecular Weight

Not applicable.

Na3O4P \* 12H2O

380.13 g/mol

VOC Content(%) No information available.

Oxidizing properties No information available.

# 9.2 Other safety information

No information available.

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

# 10.1 Reactivity

None known, based on information available.

# 10.2 Chemical stability

Light sensitive, air sensitive, moisture sensitive.

# 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation.

# 10.5 Incompatible materials

Strong oxidizing agents.

# 10.6 Hazardous decomposition products

Oxides of phosphorus, sodium oxides.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Product Information, Component Information**

#### **Acute toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation

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Sodium Phosphate Tribasic Dodecahydrate	7400 mg/kg (rat)	Not listed	Not listed
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### Skin corrosion/irritation

Irritating to skin.

# Serious eye damage/eye irritation

Irritating to eyes.

# Respiratory or skin sensitization

No information available.

# Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sodium Phosphate Tribasic Dodecahydrate	10101-89-0	Not listed				

# Specific target organ toxicity - single exposure

Respiratory system.

# Specific target organ toxicity - repeated exposure

None known.

# Reproductive toxicity

No information available.

### **Chronic effects**

No information available.

# 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Do not empty into drains.

# 12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available.

# 12.3 Bio accumulative potential

No information available.

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# 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information 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)** Not regulated.

**IMDG** Not regulated.

IATA Not regulated.

# **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)**

Listed. Sodium Phosphate Tribasic Dodecahydrate (10101-89-0). RQ: 5000 lb

# SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

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# Superfund Amendments and Reauthorization Act of 1986 (SARA)

# SARA 302 Extremely hazardous substance

Not listed.

### SARA 311/312 Hazardous

See Section 2 for more information.

### 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)

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**

Listed. Sodium Phosphate Tribasic Dodecahydrate (10101-89-0).

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

Not listed.

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

Listed. Sodium Phosphate Tribasic Dodecahydrate (10101-89-0).

### California Proposition 65

Not listed.

# **SECTION 16: Other information**

Issue date: 04/29/2024 Revision 1: 01/06/2025

# **SECTION 17: Disclaimer**

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