



## ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

Address : H.No.712/3, sainagar, Palghar mumbai 401102

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## MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

### 1. Identification

**Product Name :** Tri-sodium phosphate AR, Sodium phosphate, tribasic dodecahydrate

CAS No : 10101-89-0

Synonyms : Trisodium phosphate dodecahydrate AR; TSP

Recommended Use

Laboratory chemicals, water treatment

### 2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity (single exposure)

Target Organs - Respiratory system.

Label Elements

Signal Word

Warning

Hazard Statements

Causes skin irritation

Category 2

Category 2

Category 3

Causes serious eye irritation

May cause respiratory irritation

Precautionary Statements

Prevention

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

Inhalation

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

Skin

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

Eyes

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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

Storage

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

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

**3. Composition/Information on Ingredients**

Component

Tribasic sodium phosphate dodecahydrate

CAS No

Weight %

10101-89-0

Trisodium phosphate

>98



**UPLC**

**4. First-aid measures**

General Advice

Eye Contact

Skin Contact

Inhalation

Ingestion

If symptoms persist, call a physician.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects

Notes to Physician

None reasonably foreseeable.

Treat symptomatically



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5. Fire-fighting measures

Suitable Extinguishing Media

Unsuitable Extinguishing Media

Flash Point

Method

Autoignition Temperature

Explosion Limits

Upper

Lower

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.

No information available

No information available

No information available

No information available

No data available

No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

Oxides of phosphorus. Sodium oxides.

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.

NFPA

Health

2

Flammability

0

Instability

0

Physical hazards

N/A

6. Accidental release measures

Personal Precautions

Environmental Precautions

Methods for Containment and Clean

Up



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

Should not be released into the environment.

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

### 7. Handling and storage

Handling

Storage.

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. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

### 8. Exposure controls / personal protection

Exposure Guidelines

Engineering Measures

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

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

### 9. 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

Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available

Lower No data available

Vapor Pressure No information available

Vapor Density Not applicable

Specific Gravity 1.620

Bulk Density 900 kg/m<sup>3</sup>

Solubility Soluble in water

Partition coefficient; n-octanol/water No data available

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Autoignition Temperature No information available

Decomposition Temperature >75 °C

Viscosity Not applicable

Molecular Formula Na<sub>3</sub> O<sub>4</sub> P . 12 H<sub>2</sub> O

Molecular Weight 380.13

### 10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Light sensitive. Air sensitive. Moisture sensitive.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Oxides of phosphorus, Sodium oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

### 11. Toxicological information

Acute Toxicity

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 and body protection Wear appropriate protective gloves and 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.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Product Information

Component Information

Component

LD50 Oral

LD50 Dermal

Tribasic sodium phosphate

dodecahydrate

LD50 = 7400 mg/kg ( Rat )

Not listed

LC50 Inhalation

Not listed

Trisodium phosphate

>2000 mg/kg ( Rat )

>2000 mg/kg ( Rat )

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LC50 > 2.16 mg/L ( Rat ) 1 h

No information available

Toxicologically Synergistic

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

Sensitization

Carcinogenicity

Component

Irritating to eyes and skin

No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen.

CAS No

IARC

NTP

Tribasic sodium

phosphate

dodecahydrate

10101-89-0

Not listed

Not listed

ACGIH

Not listed

OSHA

Not listed

Mexico

Not listed

Trisodium phosphate

Mutagenic Effects

Reproductive Effects

Developmental Effects

Teratogenicity

7601-54-9

STOT - single exposure

STOT - repeated exposure

Aspiration hazard

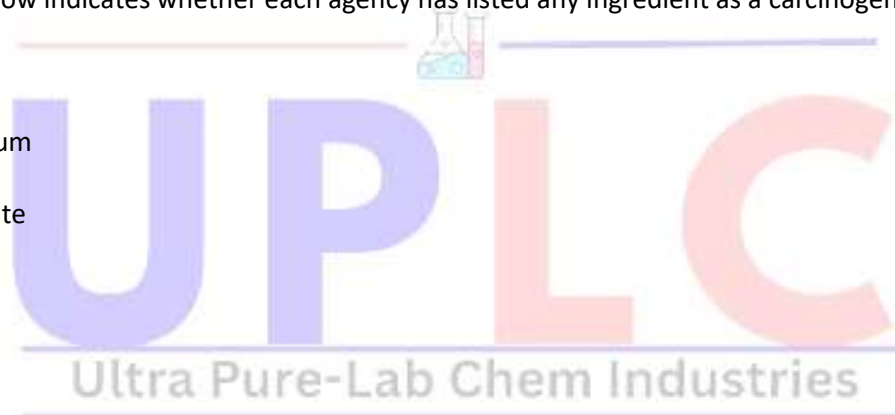
Symptoms / effects, both acute and delayed

Endocrine Disruptor Information

Other Adverse Effects

Not listed

Not listed





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No information available

No information available.

No information available.

No information available.

Respiratory system

None known

No information available

No information available

No information available

Not listed

Not listed

The toxicological properties have not been fully investigated.

Not listed

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability

Bioaccumulation/ Accumulation

Mobility

Soluble in water Persistence is unlikely based on information available.

No information available.

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

13. Disposal considerations

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.

14. Transport information

DOT

TDG

IATA

IMDG/IMO

Not regulated

Not regulated

Not regulated

Not regulated

15. Regulatory information

United States of America Inventory



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Component

CAS No

TSCA

Tribasic sodium phosphate

dodecahydrate

10101-89-0

TSCA Inventory notification

Active-Inactive

TSCA - EPA Regulatory

Flags

Trisodium phosphate

7601-54-9

X

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

International Inventories

Not applicable

Not applicable

ACTIVE

Canada (DSL/NDL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component

CAS No

DSL

NDL EINECS PICCS ENCS ISHL AICS IECSC KECL

Tribasic sodium phosphate

dodecahydrate

10101-89-0--

Trisodium phosphate

7601-54-9

X

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Not applicable

231-509-8

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SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component

CWA - Hazardous

Substances

KE-34912

CWA - Reportable

Quantities

Tribasic sodium phosphate

dodecahydrate

Trisodium phosphate

X

CWA - Toxic Pollutants CWA - Priority Pollutants--

X

Clean Air Act

OSHA - Occupational Safety and

Health Administration

CERCLA

Not applicable

Not applicable

5000 lb--

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component

Hazardous Substances RQs

CERCLA EHS RQs

Tribasic sodium phosphate dodecahydrate

Trisodium phosphate

5000 lb

5000 lb

Regulations

Component Massachusetts New Jersey Pennsylvania Illinois Rhode Island

Tribasic sodium

phosphate

dodecahydrate

X-X--

Trisodium phosphate X X X--

U.S. Department of Transportation

Reportable Quantity (RQ): Y

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

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U.S. Department of Homeland  
Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component CAS No REACH (1907/2006)

Annex XIV - Substances

Subject to Authorization

REACH (1907/2006)

Annex XVII - Restrictions

on Certain Dangerous

Substances

REACH Regulation (EC

1907/2006) article 59

Candidate List of

Substances of Very High

Concern (SVHC)

Tribasic sodium phosphate

dodecahydrate

10101-89-0--

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

Component CAS No OECD HPV Persistent Organic

Pollutant

Ozone Depletion

Potential

Restriction of

Hazardous

Substances (RoHS)

Tribasic sodium phosphate

dodecahydrate

10101-89-0 Listed Not applicable Not applicable Not applicable

Trisodium phosphate 7601-54-9 Listed Not applicable Not applicable Not applicable

Component CAS No Seveso III Directive

(2012/18/EC)

Qualifying Quantities

for Major Accident

Notification

Seveso III Directive

(2012/18/EC)

Qualifying Quantities

for Safety Report

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Requirements

Rotterdam

Convention (PIC)

Basel Convention

(Hazardous Waste)

Tribasic sodium phosphate

dodecahydrate

10101-89-0 Not applicable Not applicable Not applicable Not applicable

Trisodium phosphate 7601-54-9 Not applicable Not applicable Not applicable Not applicable

16. Other information

Disclaimer

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text