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**Material Safety Data Sheet**

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<b>Product Name</b>	<b>di-Sodium hydrogen ortho phosphate</b>
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**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identification:****Product Description:** di-Sodium hydrogen ortho phosphate**Cat No. :** 11610,21610,31610**Synonyms:** Dibasic Sodium Phosphate; Disodium hydrogen phosphate; Disodium monohydrogen phosphate; Disodium orthophosphate; Disodium phosphoric acid; Phosphoric acid, disodium salt; Soda phosphate; Sodium hydrogen phosphate**CAS-No:** 7558-79-4**EC-No.:** 231-448-7**Molecular Formula:** Na<sub>2</sub>HPO<sub>4</sub>**REACH Registration No:** Not Applicable**1.2. Relevant identified uses of the substance or mixture and uses advised against:****Recommended Use:** Laboratory chemicals, Manufacture of substances**1.3. Details of the supplier of the safety data sheet:**

- Company** **Finar Limited**  
184-186/P, Chacharwadi Vasna,  
Sarkhej-Bavla Highway,  
Ta.: Sanand, Dist.: Ahmedabad,  
Email: [info@finarchemicals.com](mailto:info@finarchemicals.com)  
Web: [www.finarchemicals.com](http://www.finarchemicals.com)
- E-Mail Address** [safety@finarchemicals.com](mailto:safety@finarchemicals.com); [info@finarchemicals.com](mailto:info@finarchemicals.com)

**1.4. Emergency Telephone Number:**

- For Emergency contact on: +91 - 2717 - 616 717
- Registered office No: +91 - 79 - 40040085

**Material Safety Data Sheet**

<b>Product Name</b>	<b>di-Sodium hydrogen ortho phosphate</b>
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**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture:**

**Classification according to Regulation (EC) No 1272/2008**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard

(29 CFR 1910.1200) Based on available data, the classification criteria are not met

**2.2. Label Elements:**

**Labeling according Regulation (EC) No 1272/2008**

None required

**2.3. Other Hazards:**

Hygroscopic. May cause eye, skin, and respiratory tract irritation.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances:** di-Sodium hydrogen ortho phosphate

**CAS-No:** 7558-79-4

**3.2. Mixtures:**

<b>Component</b>	<b>CAS-No</b>	<b>EC-No.</b>	<b>Weight %</b>
di-Sodium hydrogen ortho phosphate	7558-79-4	231-448-7	>95

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**Material Safety Data Sheet**

---

<b>Product Name</b>	<b>di-Sodium hydrogen ortho phosphate</b>
---------------------	---

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures:****• If inhaled**

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

**• In case of skin contact**

Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

**• In case of eye contact**

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

**• Ingestion**

Do not induce vomiting. Get medical attention if symptoms occur.

**• Most important symptoms and effects**

No information available.

**• Notes to Physician**

Treat symptomatically

**4.2. Most important symptoms and effects, both acute and delayed:**

Irritant effects

**4.3. Indication of any immediate medical attention and special treatment needed:**

No Data Available

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media:**

**Suitable Extinguishing Media-** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media-** For this substance/mixture no limitations of extinguishing agents are given.

**Material Safety Data Sheet**

<b>Product Name</b>	<b>di-Sodium hydrogen ortho phosphate</b>
---------------------	---

**5.2. Special hazards arising from the substance or mixture:**

Not combustible.  
 Ambient fire may liberate hazardous vapours.  
 Fire may cause evolution of:  
 Oxides of phosphorus

**5.3. Advice for firefighters:**

Wear Self-contained breathing apparatus for firefighting if necessary.

**5.4 Further Information:**

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures:**

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.  
 Advice for emergency responders:  
 Protective equipment see section 8.

**6.2. Environmental precautions:**

Do not let product enter drains.

**6.3. Methods and material for containment and cleaning up:**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area.  
 Avoid generation of dusts.

**6.4. Reference to other sections:**

For disposal see Sections 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation.  
 Do not breathe dust. Avoid contact with skin, eyes and clothing.

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**Material Safety Data Sheet**

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<b>Product Name</b>	<b>di-Sodium hydrogen ortho phosphate</b>
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**7.2. Conditions for safe storage:**

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

**7.3. Specific end use(s):**

Apart from the uses mention in section 1.2 No other specific uses are stipulated

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters:-**

Contains no substances with occupational exposure limit values.

**8.2. Exposure Controls:**

- **Appropriate Engineering Controls:-**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1.

- **Individual protection measures:-**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

- **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 and clothing to prevent skin exposure.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: > 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: >480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374

## Material Safety Data Sheet

<b>Product Name</b>	<b>di-Sodium hydrogen ortho phosphate</b>
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- **Respiratory Protection-** Required when dusts are generated. Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.  
The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
- **Environmental Exposure Controls-**  
Do not let product enter drains.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### **9.1. Information on basic physical and chemical properties:**

- **Appearance:** White
- **Physical State - Solid**
- **Odor - Odorless**
- **pH – 8.7 - 9.3 at 10g/l 20°C**
- **Molecular Weight:- 141.96 g/mol**
- **Melting Point: 240°C (Decomposition)**
- **Critical Temperature:** No data available
- **Vapor Pressure:** No data available
- **Vapor Density:-** No data available
- **Volatility:** No data available
- **Odor Threshold:-** No data available
- **Partiotin Coefficient n-octanol/water:-** No data available
- **Ionicity (in Water):** No data available
- **Boiling Point/Range:-** No data available
- **Flash Point:** does not flash
- **Specific Gravity / Density:-**
- **Solubility:** - Slightly soluble in water
- **Decomposition Temp. :- >240°C**

#### **9.2. Other information:**

**Molecular Formula:-**  $\text{Na}_2\text{HPO}_4$

**Material Safety Data Sheet**

<b>Product Name</b>	<b>di-Sodium hydrogen ortho phosphate</b>
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**SECTION 10: STABILITY AND REACTIVITY**

- 10.1. Reactivity:-** None known, based on information available
- 10.2. Chemical stability:-** Hygroscopic.
- 10.3. Possibility of hazardous reactions:-** None under normal processing.
- 10.4. Conditions to avoid:-** Incompatible products. Excess heat. Exposure to moist air or water.
- 10.5. Incompatible materials:-** Strong oxidizing agents, Strong acids, Strong bases
- 10.6. Hazardous decomposition products:-** Sodium oxides, Oxides of phosphorus
- 10.7 Hazardous Polymerization:-** Incompatible products. Excess heat. Exposure to moist air or water.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Component Information**

<b>Component</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Sodium phosphate dibasic	17 g/kg ( Rat )	Not listed	Not listed

**Toxicologically Synergistic Products**

No information available

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

**Irritation** No information available

**Sensitization** No information available

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

**Material Safety Data Sheet**

<b>Product Name</b>	<b>di-Sodium hydrogen ortho phosphate</b>
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<b>Component</b>	<b>CAS-No</b>	<b>IARC</b>	<b>NTP</b>	<b>ACGIH</b>	<b>OSHA</b>
Sodium phosphate Dibasic	7558-79-4	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects:-** No information available

**Reproductive Effects:-** No information available.

**Developmental Effects:-** No information available.

**Teratogenicity:-** No information available.

**STOT - single exposure:-** None known

**STOT - repeated exposure:-** None known

**Aspiration hazard** No information available

**Symptoms / effects, both acute and delayed:-** No information available

**Endocrine Disruptor Information:-** No information available

**Other Adverse Effects:-** The toxicological properties have not been fully investigated.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity:**

Toxicity to fish LC50 Gambusia affinis (Mosquito fish): 467 mg/l; 48 h (Lit.)

Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia magna (Water flea): 1,089 mg/l; 48 (Lit.)

**12.2 Persistence and degradability**

No information available.

**12.3 Bio accumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.



**Material Safety Data Sheet**

<b>Product Name</b>	<b>di-Sodium hydrogen ortho phosphate</b>
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**12.6 Other adverse effects**

Discharge into the environment must be avoided.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the national and local regulations.

Leave chemicals in original containers. No mixing with other waste.

Handle uncleaned containers like the product itself.

**SECTION 14: Transport information**

**14.1 DOT** Not regulated

**14.2 TDG** Not regulated

**14.3 IATA** Not regulated

**14.4 IMDG/IMO** Not regulated

**SECTION 15: Regulatory information**

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

TSCA 12(b) Not applicable

SARA 313 Not applicable

**15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out.

**SECTION 16: Other information**

**Training advice:-**

Provide adequate information, instruction and training for operators.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org)

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**Material Safety Data Sheet**

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<b>Product Name</b>	<b>di-Sodium hydrogen ortho phosphate</b>
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**References:** Not available

**Created:** 25/09/2019

**Disclaimer:**

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