

Safety Data Sheet

Product Name	Sodium dihydrogen phosphate anhydrous
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:

Product Description: Sodium dihydrogen phosphate anhydrous

Synonyms: Monosodium phosphate, Sodium acid phosphate, Sodium biphosphate anhydrous

CAS-No: 7558-80-7

EC-No.: 231-449-2

Molecular Formula: NaH_2PO_4

REACH Registration No: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

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-382110, Gujarat, India.
Web: www.finarchemicals.com
- E-Mail Address** safety.finar@aceto.com; info.finar@aceto.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label Elements:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other Hazards:

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: Sodium dihydrogen phosphate anhydrous

3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
Sodium dihydrogen phosphate anhydrous	7558-80-7	231-449-2	100

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

- **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

- **If inhaled**

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

- **If Contact with skin**

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

- **In case of eye contact**

Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

- **If swallowed**

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Do not induce vomiting. Obtain medical attention.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

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, Sodium oxides.

5.3. Advice for firefighters:

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

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:

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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:

Ensure adequate ventilation. Wear personal protective equipment. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities:

Tightly closed. Dry.

Hygroscopic. Keep in a dry place.

7.3. Specific end use(s):

Apart from the uses mentioned 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.

Personal Protective Equipment:

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.

Eye & Face Protection-

Safety glasses

Hand Protection –

Full contact:

Glove Material: Nitrile Rubber

Glove Thickness: 0.11 mm

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Break Through Time: >480 min

Splash contact:

Glove Material: Nitrile Rubber

Glove 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, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

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
- **Odor Threshold:** No data available
- **pH:** 4.0- 4.5 at 20°C 5% aq. solution
- **Melting Point:** 100 °C
- **Critical Temperature:** No data available
- **Vapor Pressure:** No data available

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- **Relative Density:** 2.36 at 20 °C - Regulation (EC) No. 440/2008, Annex, A.3
- **Density:** No data available
- **Auto-Ignition Temperature:** No data available
- **Decomposition Temperature:** > 170°C
- **Volatility:** No data available
- **Bulk Density:** ca.940 kg/m³
- **Viscosity, dynamic:** No data available
- **Viscosity, Kinematic:** No data available
- **Water/Oil Dist. Co eff.:** No data available
- **Partition Co-efficient: n-octanol/Water:** No data available
- **Ionicity (in Water):** No data available
- **Lower Explosion Limit:** No data available
- **Upper Explosion Limit:** No data available
- **Boiling Point/Range:** 203.9 °C
- **Specific Gravity:** 2.04
- **Flash Point:** Does not flash
- **Water Solubility:** 850 g/l at 20 °C

9.2. Other information:

Molecular Formula: NaH₂PO₄

Molecular Weight: 119.98 g/mol

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:

Violent reactions possible with: Strong acids

10.4. Conditions to avoid:

Incompatible products. Excess heat. Avoid dust formation.

10.5. Incompatible materials:

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Strong oxidizing agents.

10.6. Hazardous decomposition products:

In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral toxicity

LD50 - Rat - > 2.000 mg/kg

(OECD Test Guideline 401)

Acute inhalation toxicity

LC50 Inhalation - Rat - male and female - 4 h - > 0.83 mg/l

(OECD Test Guideline 403)

(highest concentration to be prepared)

Acute dermal toxicity

LD50 Dermal - Rabbit - > 7.940 mg/kg

(IUCLID)

Skin irritation

Rabbit

Result: No skin irritation

(OECD Test Guideline 404)

Eye irritation

Rabbit

Result: slight irritation

(IUCLID)

Sensitisation

Sensitisation test: - Mouse

Result: Does not cause skin sensitisation.

(OECD Test Guideline 429)

Germ cell mutagenicity

In vitro mammalian cell gene mutation test

mouse lymphoma cells

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Result: negative

Remarks:

(ECHA)

Micronucleus test

Human lymphocytes

Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Further Information:

RTECS: WA1900000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

No toxic effects are to be expected when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Toxicity to fish

Semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

Static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h
(OECD Test Guideline 202)

Toxicity to algae

Static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 48 h
(OECD Test Guideline 201)

Toxicity to bacteria

Static test EC50 - activated sludge - > 1.000 mg/l - 3 h
(OECD Test Guideline 209)

12.2 Persistence and degradability:

Soluble in water Persistence is unlikely based on information available.

12.3 Bioaccumulate 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 Other adverse effects:

Depending on the concentration, phosphates may contribute to the eutrophication of water supplies.
Discharge into the environment must be avoided.

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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

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	Not classified as dangerous in the meaning of transport regulations.		
14.2 Proper shipping name	Not classified as dangerous in the meaning of transport regulations.		
14.3 Class	Not classified as dangerous in the meaning of transport regulations.		
14.4 Packing group	Not classified as dangerous in the meaning of transport regulations.		
14.5 Environmentally hazardous	Not classified as dangerous in the meaning of transport regulations.		
14.6 Special precautions for user	Not classified as dangerous in the meaning of transport regulations.		

SECTION 15: Regulatory information

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

National legislation

Storage class 10 - 13

15.2 Chemical safety assessment:

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

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SECTION 16: Other information**Training advice:**

Provide adequate information, instruction and training for operators.

References: Not available

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Disclaimer:

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