

# **Material Safety Data Sheet**

Date Printed: 01/29/2005 Date Updated: 04/04/2004 Version 1.60

# Section 1 - Product and Company Information

**Product Name** 

Sodium phosphate dibasic heptahydrate, ACS reagent, 98.0-102.0% \$9390

Product Number Brand

Fax:

Sigma Chemical

Company Street Address Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country Technical Phone:

SAINT LOUIS, MO 63103 US 314 771 5765

800 325 5052

**Emergency Phone:** 414 273 3850 Ext. 5996

EC no

# Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

7782-85-6

**SARA 313** 

Annex I Index Number

SODIUM PHOSPHATE DIBASIC,

**HEPTAHYDRATE** 

237-707-0 No

Na2HPO4.7H2O Formula

Synonyms

Disodium phosphate heptahydrate, Phosphoric acid, disodium salt, heptahydrate, Sodium

phosphate, diabasic, heptahydrate

#### Section 3 - Hazards Identification

#### **Emergency Overview**

Irritant.

Irritating to eyes, respiratory system and skin.

**HMIS Rating** 

Health: 1

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 1

Flammability: 0

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

# Section 4 - First Aid Measures

#### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

# Section 5 - Fire Fighting Measures

Autoignition Temp:

N/A

**Extinguishing Media** 

Suitable

Noncombustible. Use extinguishing media appropriate to surrounding fire conditions

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

# Section 6 - Accidental Release Measures

#### Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

# Section 7 - Handling and Storage

User Exposure

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed.

# Section 8 - Exposure Controls / PPE

**Engineering Controls** 

Safety shower and eye bath. Mechanical exhaust required.

# Personal Protective Equipment

Respiratory

Government approved respirator.

Hand

Compatible chemical-resistant gloves.

Chemical safety goggles.

# General Hygiene Measures

Wash thoroughly after handling.

# Section 9 - Physical/Chemical Properties

Appearance

Color

Form Crystals

Colorless

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Molecular Weight:

268.07 AMU

N/A N/A **BP/BP** Range N/A MP/MP Range Freezing Point N/A Vapor Pressure N/A Vapor Density 4.9 g/l Saturated Vapor Conc. N/A SG/Density 1.68 g/cm3 **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** N/A Water Content N/A Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A **Partition Coefficient** N/A Decomposition Temp. N/A Flash Point °F N/A Flash Point °C N/A **Explosion Limits** N/A Flammability N/A

**Autoignition Temp** N/A = not available

#### Section 10 - Stability and Reactivity

N/A N/A

# Stability

Stable

Solubility

Stable

**Conditions to Avoid** 

Protect from moisture.

Materials to Avoid

Strong acids.

#### Hazardous Decomposition Products

**Hazardous Decomposition Products** 

Nature of decomposition products not known.

#### Hazardous Polymerization

Hazardous Polymerization

Will not occur.

# Section 11 - Toxicological Information

#### Route of Exposure

Skin Contact

Causes skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

**Eye Contact** 

Causes eye irritation.

Inhalation

Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

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#### Ingestion

May be harmful if swallowed.

#### Signs and Symptoms of Exposure

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

RTECS Number: WC4600000

#### **Toxicity Data**

Oral - Rat: 12930 mg/kg (LD50)

#### Section 12 - Ecological Information

No data available.

#### Section 13 - Disposal Considerations

#### Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

# Section 14 - Transport Information

#### DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Non-Hazardous for Air Transport: Non-hazardous for air transport.

#### Section 15 - Regulatory Information

#### **EU Additional Classification**

Symbol of Danger: Xi

Indication of Danger

Irritant.

Risk Statements

R: 36/37/38

Irritating to eyes, respiratory system and skin.

Safety Statements

S: 26 36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

### US Classification and Label Text

Indication of Danger

Irritant

**Risk Statements** 

Irritating to eyes, respiratory system and skin.

#### Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

#### United States Regulatory Information

SARA Listed: No

## Canada Regulatory Information

#### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information

required by the CPR.

DSL: No NDSL: No

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# Section 16 - Other Information

#### Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the product. See jugna-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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