

# **Material Safety Data Sheet**

Date Printed: 02/02/2006 Date Updated: 01/30/2006 Version 1.70

# Section 1 - Product and Company Information

**Product Name** 

Sodium phosphate dibasic \$0876

**Product Number** Brand

Sigma-Aldrich

Company Street Address Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country

SAINT LOUIS, MO 63103 US

**Technical Phone:** 

800-325-5832

800-325-5052

314-776-6555

## Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

**SARA 313** No

EC no

Annex I Index Number

DI-SODIUM HYDROGEN PHOSPHATE

7558-79-4

231-448-7

**ANHYDROUS** 

Formula Synonyms Na2HPO4

Dibasic sodium phosphate, Disodium hydrogen phosphate, Disodium monohydrogen phosphate, Disodium orthophosphate, Disodium phosphate, Disodium phosphoric acid, Exsiccated sodium phosphate, Natriumphosphat (German), Soda phosphate, Sodium hydrogen phosphate, Sodium

**Emergency Phone:** 

phosphate, dibasic, Phosphoric acid, disodium salt

### Section 3 - Hazards Identification

**HMIS Rating** Health: 0

Flammability: 0

Reactivity: 1

NFPA Rating

Flammability: 0 Health: 0

Reactivity: 1

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 breathing becomes difficult, call a physician.

# **Dermal Exposure**

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

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## Section 5 - Fire Fighting Measures

**Autoignition Temp:** 

N/A

## **Extinguishing Media**

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**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)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

#### 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

# Section 7 - Handling and Storage

## Handling

User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

# Storage

Suitable

Keep tightly closed.

## **Special Requirements**

Hygroscopic.

# Section 8 - Exposure Controls / PPE

# **Engineering Controls**

Safety shower and eye bath. Mechanical exhaust required.

# **Personal Protective Equipment**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

# Hand

Protective gloves.

Eve

Chemical safety goggles.

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Page 2

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### General Hygiene Measures Wash thoroughly after handling.

Appearance

Physical State

# Section 9 - Physical/Chemical Properties

Color

Form

Powder

2 myorour otate	00101
Solid.	White
Malagulau Walashi	444.00 4441
Molecular Weight:	141.96 AMU
Hq	8.9 - 9.2
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	4.9 g/l
Saturated Vapor Conc.	N/A
SG/Density	1.52 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.	240 °C
Flash Point °F	N/A
Flash Point °C	N/A
Euplasian timita	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Solubility	
Solubility in Water: Soluble.	
oorabinty in tracer, colubie.	

# N/A = not available

# Section 10 - Stability and Reactivity

# Stability

Stable

Stable.

**Conditions to Avoid** 

Moisture.

Materials to Avoid

Strong oxidizing agents, Strong acids.

### Hazardous Decomposition Products

Hazardous Decomposition Products

Phosphorous oxides, Sodium oxides.

Thospholous oxides, Socialit oxides

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Page 3

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## **Hazardous Polymerization**

Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

### Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

May cause eye irritation.

Inhalation

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

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: WC4500000

**Toxicity Data** 

Oral - Rat: 17000 mg/kg (LD50)

### Irritation Data

Skin - Rabbit: 500 mg 24H

Remarks: Mild irritation effect

Eyes - Rabbit: 500 mg 24H

Remarks: Mild irritation effect

## 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.

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## Section 14 - Transport Information

#### DOT

Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s.

UN#: 3077

Class: 9

Packing Group: Packing Group III

Hazard Label: Class 9

PIH: Not PIH

### IATA

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

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Page 4

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# Section 15 - Regulatory Information

United States Regulatory Information SARA Listed: No

TSCA inventory Item: Yes

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: Yes

NDSL: No

## Section 16 - Other Information

## Disclaimer

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

#### Warrant

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 properties of the product. Sigma-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 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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Page 5

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