

# MATERIAL SAFETY DATA SHEET

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Sodium phosphate dibasic dihydrate, HPLC grade, 99+%

**Catalog Numbers:** AC343810000, AC343810050, AC343810250

**Synonyms:** Disodium hydrogen phosphate dihydrate; Sodium phosphate dibasic dihydrate.

**Company Identification:** Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

**Company Identification: (USA)** Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

**For information in the US, call:** 800-ACROS-01

**For information in Europe, call:** +32 14 57 52 11

**Emergency Number, Europe:** +32 14 57 52 99

**Emergency Number US:** 201-796-7100

**CHEMTREC Phone Number, US:** 800-424-9300

**CHEMTREC Phone Number, Europe:** 703-527-3887

## Section 2 - Composition, Information on Ingredients

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**CAS#:** 10028-24-7

**Chemical Name:** Sodium phosphate dibasic dihydrate

**%:** > 99

**EINECS#:** unlisted

**Hazard Symbols:**

**Risk Phrases:**

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Text for R-phrases: see Section 16

**Hazard Symbols:** None listed

**Risk Phrases:** None listed

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Not available Target Organs: None known.

### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.

**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.

**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.

**Chronic:**

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately.  
**Notes to Physician:** Treat symptomatically and supportively.

**Section 5 - Fire Fighting Measures**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.  
**Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Use water spray, dry chemical, carbon dioxide, or chemical foam.  
**Autoignition Temperature:** Not available  
**Flash Point:** Not available  
**Explosion Limits:** Not available  
**Lower:**  
**Explosion Limits:** Not available  
**Upper:**  
**NFPA Rating:** health: 1; flammability: 0; instability: 0;

**Section 6 - Accidental Release Measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8.  
**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

**Section 7 - Handling and Storage**

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.  
**Storage:** Store in a cool, dry place. Store in a tightly closed container.

**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium phosphate dibasic, anhydrous listed	none listed	none listed	none
Sodium phosphate dibasic dihydrate listed	none listed	none listed	none

OSHA Vacated PELs: Sodium phosphate dibasic, anhydrous: None listed Sodium phosphate dibasic dihydrate: None listed

**Personal Protective Equipment**

**Eyes:** Not available  
**Skin:** Wear appropriate protective gloves to prevent skin exposure.  
**Clothing:** Wear appropriate protective clothing to prevent skin exposure.  
**Respirators:** 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.

### Section 9 - Physical and Chemical Properties

**Physical State:** Solid  
**Color:** Not available  
**Odor:** Not available  
**pH:** 9.1 - 9.4 (50 g/l aq)  
**Vapor Pressure:** Not available  
**Vapor Density:** Not available  
**Evaporation Rate:** Not available  
**Viscosity:** Not available  
**Boiling Point:** Not available  
**Freezing/Melting Point:** 243 - 245 deg C  
**Decomposition Temperature:** Not available  
**Solubility in water:** 93 g/l water (20°C)  
**Specific Gravity/Density:**  
**Molecular Formula:** HNa2O4P.2H2O  
**Molecular Weight:** 196.00

### Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	Incompatible materials, moisture.
<b>Incompatibilities with Other Materials</b>	Not available
<b>Hazardous Decomposition Products</b>	Oxides of phosphorus, sodium oxide.
<b>Hazardous Polymerization</b>	Has not been reported.

### Section 11 - Toxicological Information

**RTECS#:** CAS# 7558-79-4: WC4500000  
CAS# 10028-24-7: None listed

**LD50/LC50:** RTECS:  
**CAS# 7558-79-4:** Draize test, rabbit, eye: 500 mg/24H Mild;  
Draize test, rabbit, skin: 500 mg/24H Mild;  
Oral, rat: LD50 = 17 gm/kg;

RTECS:  
**CAS# 10028-24-7:**

**Carcinogenicity:** Sodium phosphate dibasic, anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
Sodium phosphate dibasic dihydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** Not available  
**Teratogenicity:** Not available  
**Reproductive:** Not available  
**Neurotoxicity:** Not available  
**Mutagenicity:** Not available  
**Other:** The toxicological properties have not been fully investigated.

### Section 12 - Ecological Information

Not available

### Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

## Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 7558-79-4: 5000 lb final RQ; 2270 kg final RQ

## Section 15 - Regulatory Information

### US Federal

#### TSCA

CAS# 7558-79-4 is listed on the TSCA Inventory.

CAS# 10028-24-7 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory (40CFR720.3(u)(2)).

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules Section 12b

None of the chemicals in this product are under a Chemical Test Rule.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### CERCLA Hazardous Substances and corresponding RQs

CAS# 7558-79-4: 5000 lb final RQ; 2270 kg final RQ

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### Section 313

No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

#### Clean Water Act:

CAS# 7558-79-4 is listed as a Hazardous Substance under the CWA. CAS# 10028-24-7 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

#### STATE

Sodium phosphate dibasic, anhy can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts. Sodium phosphate dibasic dihydrate is not present on state lists from CA, PA, MN, MA, FL, or NJ.

#### California Prop 65

#### California No

None of the chemicals in this product are listed.

#### Significant Risk Level:

#### European/International Regulations

European Labeling in Accordance with EC Directives  
Hazard Symbols: Not available  
Risk Phrases:

Safety Phrases:  
S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)  
CAS# 7558-79-4: 1  
CAS# 10028-24-7: 1

Canada

CAS# 7558-79-4 is listed on Canada's DSL List  
Canadian WHMIS Classifications: Not available  
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.  
CAS# 7558-79-4 is not listed on Canada's Ingredient Disclosure List.  
CAS# 10028-24-7 is not listed on Canada's Ingredient Disclosure List.

**Section 16 - Other Information**

**MSDS Creation Date:** 1/17/2000  
**Revision #3 Date** 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.