Material Safety Data Sheet
Sodium phosphate, monobasic monohydrate

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium phosphate, monobasic monohydrate
Catalog Numbers: 20780-0000, 20780-2500, 20780-5000, 42439-0000, 42439-0025, 42439-0250, 42439-5000
Synonyms: Sodium dihydrogen phosphate monohydrate; Dihydrogen sodium phosphate monohydrate

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaalaan 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

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>%</th>
<th>EINECS#</th>
<th>Hazard Symbols:</th>
<th>Risk Phrases:</th>
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<td>10049-21-5</td>
<td>Sodium phosphate, monobasic monohydrate</td>
<td>99+</td>
<td>unlisted</td>
<td>XI</td>
<td>36</td>
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Text for R-phrases: see Section 16

Hazard Symbols: XI

Risk Phrases: 36

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Potential Health Effects

Eye: Causes 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.

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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

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.

Substance is noncombustible. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

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. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

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

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits
Personal Protective Equipment

Eyes: Wear chemical splash goggles.

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: Crystals
Color: white
Odor: odorless
pH: 4.1-4.5 (5% aq. sol. 20°C)
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: 100 deg C (212.00°F)
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature:
Solubility in water: 1103 g/l (20°C)
Specific Gravity/Density:
Molecular Formula: H2NaO4P.H2O
Molecular Weight: 137.99

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air.
Conditions to Avoid: Incompatible materials, exposure to moist air or water.
Incompatibilities with Other Materials: Strong oxidizing agents, strong acids.
Hazardous Decomposition Products: Carbon monoxide, oxides of phosphorus, carbon dioxide.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

CAS#: 7558-80-7: WA1900000
CAS#: 10049-21-5: None listed

LD50/LC50:

RTECS:
CAS# 7558-80-7: Draize test, rabbit, eye: 150 mg Mild;
Oral, rat: LD50 = 8290 mg/kg;

Sodium phosphate, monobasic - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Carcinogenicity: Sodium phosphate, monobasic monohydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information
Do not empty into drains.

**Section 13 - Disposal Considerations**

Dispose of in a manner consistent with federal, state, and local regulations.

**Section 14 - Transport Information**

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<th>RID/ADR</th>
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<td>UN</td>
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**Section 15 - Regulatory Information**

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

Hazard Symbols: XI

Risk Phrases:

R 36 Irritating to eyes.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 39 Wear eye/face protection.

**WGK (Water Danger/Protection)**

CAS# 7558-80-7: 1

CAS# 10049-21-5: 1

Canada

CAS# 7558-80-7 is listed on Canada's DSL List

US Federal

TSCA

CAS# 7558-80-7 is listed on the TSCA Inventory.

CAS# 10049-21-5 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)).

**Section 16 - Other Information**
Text for R-phrases from Section 2

R 36 Irritating to eyes.

MSDS Creation Date: 10/28/1996
Revision #1 Date 9/28/2006
Revisions were made in Sections: 1, 2, 3, 8, 9, 10, 14

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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.

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