

Material Safety Data Sheet
Sodium phosphate monobasic monohydrate

MSDS# 15191

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium phosphate monobasic monohydrate

Catalog Numbers: AC207800000, AC207805000, AC424390000, AC424390025, AC424390250, AC424395000, AC424395000, BP330-1, BP330-500, NC9863219, S369-1, S369-250LB, S369-3, S369-50, S369-500, S369-50LC, S468-10, S468-250LB, S468-500

Synonyms: Monosodium dihydrogen orthophosphate monohydrate; Monosodium dihydrogen phosphate monohydrate.

Company Identification: Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 201-796-7100

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

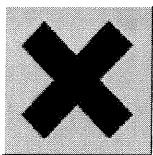
Section 2 - Composition, Information on Ingredients

Risk Phrases:

CAS#: 10049-21-5
Chemical Name: Sodium dihydrogen phosphate monohydrate
%: >98
EINECS#: unlisted
Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols: XI



Risk Phrases: 36

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Causes eye irritation. May be harmful if swallowed, inhaled, or absorbed through the skin. May cause skin and respiratory tract irritation. Target Organs: Eyes.

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.
Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately 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. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or 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 if cough or other symptoms appear.

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is noncombustible. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: health: 2; flammability: 0; instability: 1;

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Avoid breathing dust.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium phosphate, monobasic, anhydrous	none listed	none listed	none listed
Sodium dihydrogen phosphate monohydrate	none listed	none listed	none listed

OSHA Vacated PELs: Sodium phosphate, monobasic, anhydrous: None listed Sodium dihydrogen phosphate monohydrate: None listed

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 appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: 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: Negligible.

Vapor Density: Not applicable.

Evaporation Rate: Negligible.

Viscosity: Not available

Boiling Point: 204 deg C (399.20°F)

Freezing/Melting Point: 100 deg C (212.00°F)

Decomposition Temperature:

Solubility in water: Soluble in water.

Specific Gravity/Density: 1103 g/l (20°C)

Molecular Formula: H₂O₄PNa.H₂O

Molecular Weight: 137.99

Section 10 - Stability and Reactivity

Chemical Stability:

Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid:

Incompatible materials, dust generation, excess heat, 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

Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 7558-80-7: WA1900000

CAS# 10049-21-5: None listed

RTECS:

CAS# 7558-80-7: Draize test, rabbit, eye: 150 mg Mild;

LD50/LC50: Oral, rat: LD50 = 8290 mg/kg;

RTECS:

CAS# 10049-21-5:

Sodium phosphate, monobasic, anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity:

Sodium dihydrogen phosphate monohydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:

The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Other:

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

US DOT

Shipping Name: Not Regulated

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:
Packing Group:

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

Canadian WHMIS Classifications: D2B

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# 7558-80-7 is not listed on Canada's Ingredient Disclosure List.

CAS# 10049-21-5 is not listed on Canada's Ingredient Disclosure 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)).

REVIEWED

Section 16 - Other Information

MSDS Creation Date: 7/12/1999

Revision #7 Date 7/20/2009

DATE: July 13/2012
Chutneyford

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.
