Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: Sodium Dihydrogen Phosphate
Product Code: 6370

Manufacturer: EMD Chemicals Inc.
P.O. Box 70
480 Democrat Road
Gibbstown, NJ 08027
Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc.

Effective Date: 3/3/2003

For More Information Call:
856−423−6300 Technical Service
Monday−Friday: 8:00 AM − 5:00 PM

In Case of Emergency Call:
800−424−9300 CHEMTREC (USA)
613−996−6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Synonym: MONOSODIUM DIHYDROGEN PHOSPHATE

Material Uses: Analytical reagent.

Chemical Family: Inorganic

Section 2. Composition and Information on Ingredients

Component: SODIUM DIHYDROGEN PHOSPHATE
CAS #: 7558−80−7
% by Weight: 100

Section 3. Hazards Identification

Physical State and Appearance: Solid.

Emergency Overview: CAUTION!
Routes of Entry: Inhalation. Ingestion.

Potential Acute Health Effects:
- Eyes: Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.
- Skin: No known acute effects of this product resulting from skin contact.
- Inhalation: No known acute effects of this product resulting from inhalation.
- Ingestion: No known acute effects of this product resulting from ingestion.

Potential Chronic Health Effects:
- Carcinogenic: This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

Medical Conditions Aggravated by Overexposure:
- Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately
flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

**Skin Contact**
In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Inhalation**
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion**
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

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**Section 5. Fire Fighting Measures**

**Flammability of the Product**
Non-flammable.

**Auto-ignition Temperature**
Not applicable.

**Flash Points**
Not applicable.

**Flammable Limits**
Not applicable.

**Products of Combustion**
Not available.

**Fire Hazards in Presence of Various Substances**
Not applicable.

**Explosion Hazards in Presence of Various Substances**
Risks of explosion of the product in presence of static discharge: No.

Risks of explosion of the product in presence of mechanical impact: No.

**Fire Fighting Media and Instructions**
Not applicable.

**Protective Clothing (Fire)**
Not applicable.

**Special Remarks on Fire Hazards**
Not available.

**Section 6. Accidental Release Measures**

**Small Spill and Leak**
Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill and Leak**
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

**Spill Kit Information**
No specific spill kit required for this product.

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**Section 7. Handling and Storage**

**Handling**
Avoid contact with eyes. Wash thoroughly after handling. Do not ingest.

**Storage**
Keep container tightly closed. Keep container in a cool, well-ventilated area.
Section 8. Exposure Controls/Personal Protection

**Engineering Controls**
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection**
- **Eyes** Splash goggles.
- **Body** Lab coat.
- **Respiratory** Wear appropriate respirator when ventilation is inadequate.
- **Hands** Not applicable.
- **Feet** Not applicable.

**Protective Clothing**

(Pictograms)
- **Personal Protection** Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing in Case of a Large Spill might not be sufficient; consult a specialist BEFORE handling this product.

**Product Name** SODIUM DIHYDROGEN PHOSPHATE

**Exposure Limits** Not available.

Section 9. Physical and Chemical Properties

- **Odor** Not available.
- **Color** Not available.
- **Physical State and Appearance** Solid.
- **Molecular Weight** 119.98 g/mole
- **Molecular Formula** H2O4P.Na
- **pH** Not available.
- **Boiling/Condensation Point** Not available.
- **Melting/Freezing Point** Not available.
- **Specific Gravity** Not available.
- **Vapor Pressure** Not available.
- **Vapor Density** Not available.
- **Odor Threshold** Not available.
- **Evaporation Rate** Not available.
- **LogKow** Not available.
- **Solubility** Soluble in water.

Section 10. Stability and Reactivity

- **Stability and Reactivity** The product is stable.
- **Conditions of Instability** Not available.
- **Incompatibility with Various Substances** Not available.
- **Rem/Incompatibility** Not available.
- **Hazardous** Not available.
### Sodium Dihydrogen Phosphate

**Decomposition**

**Products**

**Hazardous Polymerization**  Will not occur.

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**Section 11. Toxicological Information**

**RTECS Number:**

| Sodium Dihydrogen Phosphate | WA1900000 |

| **Toxicity** | Acute oral toxicity (LD50): 8290 mg/kg [Rat]. |
| **Chronic Effects on Humans** | Not available. |
| **Acute Effects on Humans** | Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Non-hazardous in the case of ingestion. |
| **Synergetic Products** (Toxicologically) | Not available. |
| **Irritancy** | Draize Test: Not available. |
| **Sensitization** | Not available. |
| **Carcinogenic Effects** | This material is not known to cause cancer in animals or humans. |
| **Toxicity to Reproductive System** | Not available. |
| **Teratogenic Effects** | Not available. |
| **Mutagenic Effects** | Not available. |

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**Section 12. Ecological Information**

**Ecotoxicity**  Not available.

**BOD5 and COD**  Not available.

**Toxicity of the Products of Biodegradation**  The product itself and its products of degradation are not toxic.

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**Section 13. Disposal Considerations**

**EPA Waste Number**  Not available.

**Treatment**  Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

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**Section 14. Transport Information**

**DOT Classification**  Proper Shipping Name: CHEMICALS, N.O.S.

**RQ:** Not applicable.

**TDG Classification**  Not available.

**IMO/IMDG Classification**  Proper Shipping Name: CHEMICALS, N.O.S.

**RQ:** Not applicable.
Section 15. Regulatory Information

U.S. Federal Regulations
- TSCA 8(b) inventory: SODIUM DIHYDROGEN PHOSPHATE
- SARA 302/304/311/312 extremely hazardous substances: No products were found.
- SARA 302/304 emergency planning and notification: No products were found.
- SARA 302/304/311/312 hazardous chemicals: No products were found.
- SARA 311/312 MSDS distribution – chemical inventory – hazard identification: No products were found.
- SARA 313 toxic chemical notification and release reporting: No products were found.
- Clean Water Act (CWA) 307: No products were found.
- Clean Water Act (CWA) 311: No products were found.
- Clean air act (CAA) 112 accidental release prevention: No products were found.
- Clean air act (CAA) 112 regulated flammable substances: No products were found.
- Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada)
- Class D−2B: Material causing other toxic effects (TOXIC).

International Regulations
- EINECS: SODIUM DIHYDROGEN PHOSPHATE 231−449−2
- DSCL (EEC) R41− Risk of serious damage to eyes.
- Australia (NICNAS): SODIUM DIHYDROGEN PHOSPHATE
- Japan (MITI): SODIUM DIHYDROGEN PHOSPHATE
- Korea (TCCL): SODIUM DIHYDROGEN PHOSPHATE
- Philippines (RA6969): SODIUM DIHYDROGEN PHOSPHATE

State Regulations
- No products were found.
- California prop. 65: No products were found.

Section 16. Other Information

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Sodium Dihydrogen Phosphate

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