Material Safety Data Sheet
Phosphomolybdic Acid Hydrate

ACC# 18685

Section 1 - Chemical Product and Company Identification

MSDS Name: Phosphomolybdic Acid Hydrate
Catalog Numbers: A237-100, A237-100, A237100, S80123, S80123MF
Synonyms: Molybdenum hydroxide oxide phosphate; Phosphoric acid, anhydride with molyb
Company Identification:
Fisher Scientific
1 Reagent Lane
Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition. Information on Ingredient

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Pecce</th>
</tr>
</thead>
<tbody>
<tr>
<td>51429-74-4</td>
<td>Phosphomolybdic Acid Hydrate</td>
<td>100</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: yellow. Danger! Strong oxidizer. Contact with other material may cause severe respiratory and digestive tract irritation with possible burns. May cause irritation with possible burns.
Target Organs: None.

Potential Health Effects
Eye: May cause eye burns. Exposure to particulates or solution may cause conjunctivitis, ulcers.

Skin: Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.

Ingestion: May cause severe gastrointestinal tract irritation with nausea, vomiting and possible diarrhea.

Inhalation: If heated, dust or fume may cause respiratory tract irritation.

Chronic: Chronic exposure can lead to necrosis of the jaw, or ‘phossy-jaw’.

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**Section 4 - First Aid Measures**

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper eyelid immediately.

Skin: Get medical aid immediately. Flush skin with plenty of soap and water for at least 15 minutes. Change contaminated clothing and shoes.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water to an unconscious person. Give milk of magnesia.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. Give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

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**Section 5 - Firefighting Measures**

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand or equivalent, and full protective gear. Material will not burn. Strong oxidizer. Contact with combustible materials may result in fire or explosion. Use any form of water. Do not use foam on a fire involving a pressure vessel. Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish fire. Autoignition Temperature: Not applicable.

Flash Point: Not applicable.


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**Section 6 - Accidental Release Measures**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up or absorb material, then place into a suitable clean, dry, closed container for recycling or disposal.

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**Section 7 - Handling and Storage**

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale dusts or fumes.

Storage: Keep refrigerated. Keep containers tightly closed.

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

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls.

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphomolybdic Acid Hydrate</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs: Phosphomolybdic Acid Hydrate: No OSHA Vacated PELs are listed.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.
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.
Respirators: A respiratory protection program that meets OSHA’s 29 CFR 1910.134 and AN European Standard EN 149 must be followed whenever workplace conditions warrant a respir

Section 9 - Physical and Chemical Properties

Physical State: Solid
Appearance: yellow
Odor: None reported
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate:
Viscosity: Not available.
Boiling Point: 78 deg C
Freezing/Melting Point: 78-90 C
Decomposition Temperature: Not available.
Solubility: Soluble in water.
Specific Gravity/Density: 3.15
Molecular Formula: 20MoO3-2H3PO4
Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials: Strong bases; Metals.
Hazardous Decomposition Products: Oxides of phosphorus, oxides of molybdenum.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: 
CAS# 51429-74-4 unlisted.
LD50/LC50:
Not available.

Carcinogenicity:
CAS# 51429-74-4: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Neurotoxicity: No data available.
Mutagenicity: No data available.
Other Studies: No data available.

Section 12 - Ecological Information

Ecotoxicity: Not available.
Environmental Fate: Not available.
Physical/Chemical: Not available.
Other: Not available.
Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants: None listed.
RCRA D-Series Chronic Toxicity Reference Levels: None listed.
RCRA F-Series: None listed.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>Shipping Name:</th>
<th>US DOT</th>
<th>IATA</th>
<th>RID/ADR</th>
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<tbody>
<tr>
<td>CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (PHOSPHOMOYBDIC ACID)</td>
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<td>No information available.</td>
<td>available (PH</td>
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<td>Hazard Class:</td>
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<tr>
<td>UN Number:</td>
<td>UN3260</td>
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<tr>
<td>Packing Group:</td>
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Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 51429-74-4 is not on the TSCA Inventory. It is a hydrate and exempt from TSCA Invent (40CFR720.3(u)(2)).

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

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

Section 12b
None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)
None of the chemicals in this material have an RQ.

Section 302 (TPQ)
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 material does not contain any Class 2 Ozone depleters.

Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA. N product are listed as Priority Pollutants under the CWA. None of the chemicals in this product under the CWA.

OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE
CAS# 51429-74-4 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California No Significant Risk Level: None of the chemicals in this product are listed. Europe Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:
Not available.
Risk Phrases:
Safety Phrases:
WGK (Water Danger/Protection)
CAS# 51429-74-4: No information available.
Canada
None of the chemicals in this product are listed on the DSL/NDSL list. This product has a WH
CAS# 51429-74-4 is not listed on Canada's Ingredient Disclosure List.
Exposure Limits

Section 16 - Additional Information

MSDS Creation Date: 3/13/1995
Revision #5 Date: 9/02/1997
The information above is believed to be accurate and represents the best information currently available to us. How
merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability
make their own investigations to determine the suitability of the information for their particular purposes. In no way s
losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary
Fisher has been advised of the possibility of such damages.

Need help with a product? Send email to Fisher's customer service or call us at 1-800-766-