

Safety Data Sheet

Phosphomolybdic Acid, 1% Aqueous

Section 1 - Chemical Product and Company Identification

SDS Name: Phosphomolybdic Acid, 1% Aqueous

Catalog Numbers: SO-394, E-306-4, F-362-7, K-693-8

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H290-Corrosive to metals: 1

H314-Skin corrosion/irritation: 1B

H318-Serious eye damage/eye irritation: 1

1% of the mixture consists of ingredients of unknown acute toxicity.

Pictograms or Hazard Symbols and Hazard Statement(s):



Signal Word: Danger

Hazard Statements:

H290-May be corrosive to metals

H314-Causes severe skin burns and eye damage

H318-Causes serious eye damage

Precautionary Statements:

P234-Keep only in original packaging.

P260-Do not breathe dust/fume/gas/mist/vapours/spray.

P264-Wash thoroughly after handling.
 P280-Wear protective gloves/ protective clothing/eye protection/face protection.
 P301+P330+P331-If swallowed: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353-If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310-Immediately call a Poison Center/doctor.
 P363-Wash contaminated clothing before reuse.
 P390-Absorb spillage to prevent material damage.
 P405-Store locked up.
 P406-Store in a corrosion resistant container with a resistant inner liner.
 P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

| CAS# | Chemical Name | Percent |
|------------|------------------------------|---------|
| 51429-74-4 | Phosphomolybdic Acid Hydrate | 1 w/v |
| 7732-18-5 | Water | balance |

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get immediate medical advice.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Get immediate medical advice.

Oral Exposure: If swallowed, get immediate medical advice. Do not induce vomiting. Rinse mouth with water. After rinsing, drink small quantities of water (stop if the exposed person feels sick as vomiting may be dangerous).

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, give oxygen. Get immediate medical attention.

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 gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or

alcohol-resistant foam.

Hazardous Combustion Products: Phosphorus oxides, molybdenum oxides, irritating fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Store in a tightly closed non-metal container in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible 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.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

| Chemical Name | ACGIH - TLV | NIOSH - IDLH | OSHA - PELs |
|--|---------------------------|-----------------------------|-----------------------------------|
| Phosphomolybdic Acid Hydrate CAS#51429-74-4 | 0.5 mg/m ³ TWA | 1000 mg/m ³ IDLH | 5 mg/m ³ TWA (vacated) |

Section 9 - Physical and Chemical Properties**Physical State:** Liquid**Appearance:** Yellow**Odor:** Odorless**Vapor Pressure:** Not available**Odor Threshold:** Not available**Vapor Density:** Not available**pH:** 1.74-1.94**Relative Density:** Not available**Melting point/freezing point:** Not available**Solubility:** Soluble in water**Boiling Point:** Not available**Flash Point:** Not available**Evaporation Rate:** Not available**Flammability (solid, gas):** Not available**Partition coefficient: n-octanol/water:** Not available**Autoignition Temperature:** Not available**Decomposition Temperature:** Not available**Viscosity:** Not available**Specific Gravity/Density:** Not available**Section 10 - Stability and Reactivity****Chemical Stability:** Stable under normal temperatures and pressures.**Conditions to Avoid:** Incompatible materials, excess heat.**Incompatible Materials:** Strong oxidizing agents, bases, organic materials, strong reducing agents, finely powdered metals, and combustible materials.**Hazardous Decomposition Products:** Phosphorus oxides, molybdenum oxides, irritating fumes and gases.

Note: May attack metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.

Section 11 - Toxicological Information**CAS# 51429-74-4 Phosphomolybdic Acid Hydrate:**

LD50 Oral: Not available

LD50 Dermal: Not available

LC50 Inhalation: Not available

Carcinogenicity: Phosphomolybdic Acid Hydrate CAS#51429-74-4 is not listed by IARC, NTP, OSHA, or California Prop. 65. Phosphomolybdic Acid Hydrate is listed by ACGIH (A3, Animal Carcinogen).

Information on the likely routes of exposure: Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Not available.

Specific Target Organ Toxicity, Single Exposure: Not available.

Specific Target Organ Toxicity, Repeated Exposure: Not available.

Symptoms associated with exposure: Causes severe burns to skin and eyes. Corrosive material. Eye contact may cause pain, watering, redness. Skin contact may cause pain, irritation, redness, blistering. Ingestion may cause stomach pains, severe swelling, severe damage to the delicate tissue and danger of perforation. Overexposure may cause cough, shortness of breath, headache, nausea, vomiting, diarrhea, fatigue, damage to liver and kidneys.

The toxicological properties of this material have not been thoroughly investigated.

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| Section 12 - Ecological Information |
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Ecotoxicity: Do not release to environment. Do not release to drains.

Persistence and degradability: Not available.

Bio-accumulative potential: Not available.

Mobility: Will likely be mobile in the environment due to its water solubility.

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| Section 13 - Disposal Considerations |
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DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

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| Section 14 - Transport Information |
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DOT

Proper shipping name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Phosphomolybdic Acid Solution)

UN3264

PG III

Hazard Class 8

Section 15 – Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 3-6-20

Revision #1: 3-20-23

Revision #2: 1-5-26

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