SECTION 1: Identification

1.1. Identification
Product form : Mixtures
Product name : Vanadate-Molybdate Reagent
Product code : LC26600

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : For laboratory and manufacturing use only.
Recommended use : Laboratory chemicals
Restrictions on use : Not for food, drug or household use

1.3. Details of the supplier of the safety data sheet
LabChem Inc
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court
Zelienople, PA 16063 - USA
T 412-826-5230 - F 724-473-0647
info@labchem.com - www.labchem.com

1.4. Emergency telephone number
Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Skin corrosion/irritation Category 1B H314
Serious eye damage/eye irritation Category 1 H318
Full text of H statements : see section 16

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US) : GHS05

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS-US) : P260 - Do not breathe mist, vapors, spray
P264 - Wash exposed skin thoroughly after handling
P280 - Wear protective gloves, eye protection, protective clothing, face protection
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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 or doctor/physician
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to comply with local, state and federal regulations

If inhaled: Remove person to fresh air and keep comfortable for breathing

2.3. Other hazards
Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS US)
Not applicable
SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>83.71</td>
<td>Not classified</td>
</tr>
<tr>
<td>Hydrochloric Acid, 37% w/w</td>
<td>(CAS No) 7647-01-0</td>
<td>13.66</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 3, H402</td>
</tr>
<tr>
<td>Ammonium Molybdate Tetrahydrate</td>
<td>(CAS No) 12054-85-2</td>
<td>2.5</td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 3, H402</td>
</tr>
<tr>
<td>Ammonium Metavanadate</td>
<td>(CAS No) 7803-55-6</td>
<td>0.13</td>
<td>Acute Tox. 3 (Oral), H301</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 2, H401</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation: Possible inflammation of the respiratory tract.

Symptoms/injuries after skin contact: Caustic burns/corrosion of the skin.

Symptoms/injuries after eye contact: Causes serious eye damage.


Chronic symptoms: Affection/discolouration of the teeth.

4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Not flammable.

Explosion hazard: Not applicable.

Reactivity: Thermal decomposition generates: Corrosive vapors.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other information: Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Try to stop release. Dike and contain spill.
6.1. **For non-emergency personnel**


Emergency procedures: Evacuate unnecessary personnel.

6.1.2. **For emergency responders**

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. **Methods and material for containment and cleaning up**

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. **Reference to other sections**

See Heading 8. Exposure controls and personal protection.

**SECTION 7: Handling and storage**

7.1. **Precautions for safe handling**

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray.

Hygiene measures: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

7.2. **Conditions for safe storage, including any incompatibilities**

Technical measures: Comply with applicable regulations.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from: incompatible materials. Keep container closed when not in use.


Incompatible materials: Direct sunlight.

Packaging materials: Do not store in corrodeable metal.

**SECTION 8: Exposure controls/personal protection**

8.1. **Control parameters**

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH Ceiling (mg/m³)</th>
<th>ACGIH Ceiling (ppm)</th>
<th>OSHA PEL (Ceiling) (mg/m³)</th>
<th>OSHA PEL (Ceiling) (ppm)</th>
<th>IDLH (ppm)</th>
<th>NIOSH REL (ceiling) (mg/m³)</th>
<th>NIOSH REL (ceiling) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid, 37% w/w (7647-01-0)</td>
<td>ACGIH</td>
<td>2.98 mg/m³</td>
<td>2 ppm</td>
<td>7 mg/m³</td>
<td>5 ppm</td>
<td>7 mg/m³</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Water (7732-18-5)</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium Metavanadate (7803-55-6)</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium Molybdate Tetrahydrate (12054-85-2)</td>
<td>ACGIH</td>
<td>0.5 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>5 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. **Exposure controls**

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

01/25/2017 EN (English US)
Vanadate-Molybdate Reagent
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Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses.

Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or face shield.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : Wear appropriate mask.
Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>≤ 0.5</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific gravity / density</td>
<td>1 - 1.1</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>None.</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1. Reactivity
Thermal decomposition generates : Corrosive vapors.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Reacts violently with (some) bases: release of heat.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials
metals. cyanides. Strong bases.
10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure: Skin and eye contact
Acute toxicity: Not classified

**Hydrochloric Acid, 37% w/w (7647-01-0)**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/ADI/RfD (mg/kg)</th>
<th>ATE US (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral rat</td>
<td>700</td>
<td>700.000</td>
</tr>
<tr>
<td>Dermal rabbit</td>
<td>5010</td>
<td>5010.000</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Water (7732-18-5)**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/ADI/RfD (mg/kg)</th>
<th>ATE US (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral rat</td>
<td>≥ 90000</td>
<td>90000.000</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Ammonium Metavanadate (7803-55-6)**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/ADI/RfD (mg/kg)</th>
<th>ATE US (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral rat</td>
<td>160</td>
<td>160.000</td>
</tr>
<tr>
<td>Dermal rat</td>
<td>2102</td>
<td>2102.000</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes severe skin burns and eye damage. pH ≤ 0.5
Serious eye damage/irritation: Causes serious eye damage. pH ≤ 0.5
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

**Hydrochloric Acid, 37% w/w (7647-01-0)**

IARC group: 3 - Not classifiable

Reproductive toxicity: Not classified
Based on available data, the classification criteria are not met
Specific target organ toxicity – single exposure: Not classified
Specific target organ toxicity – repeated exposure: Not classified
Aspiration hazard: Not classified
Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation: Possible inflammation of the respiratory tract.
Symptoms/injuries after skin contact: Caustic burns/corrosion of the skin.
Symptoms/injuries after eye contact: Causes serious eye damage.
Chronic symptoms: Affection/discolouration of the teeth.

SECTION 12: Ecological information

12.1. Toxicity

**Hydrochloric Acid, 37% w/w (7647-01-0)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>EC50/EC10 (mg/l) (EC50; EC10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>282</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&lt; 56</td>
</tr>
</tbody>
</table>

01/25/2017 EN (English US)
Ammonium Metavanadate (7803-55-6)
LC50 fish 1 2.9 - 5.3 mg/l (LC50; 96 h)
EC50 Daphnia 1 1.52 mg/l (EC50; 48 h)
Threshold limit algae 1 4 mg/l (EC50; 72 h)

Ammonium Molybdate Tetrahydrate (12054-85-2)
LC50 fish 1 320 mg/l
EC50 Daphnia 1 140 mg/l
LC50 fish 2 420
ErC50 (algae) 41 mg/l

12.2. Persistence and degradability

Vanadate-Molybdate Reagent
Persistence and degradability Not established.

Hydrochloric Acid, 37% w/w (7647-01-0)
Persistence and degradability Biodegradability: not applicable. No test data on mobility of the components available.
Biochemical oxygen demand (BOD) Not applicable
Chemical oxygen demand (COD) Not applicable
ThOD Not applicable

Water (7732-18-5)
Persistence and degradability Not established.

Ammonium Metavanadate (7803-55-6)
Persistence and degradability Adsorbs into the soil.

Ammonium Molybdate Tetrahydrate (12054-85-2)
Persistence and degradability Not established.

12.3. Bioaccumulative potential

Vanadate-Molybdate Reagent
Bioaccumulative potential Not established.

Hydrochloric Acid, 37% w/w (7647-01-0)
Log Pow 0.25 (QSAR)
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

Water (7732-18-5)
Bioaccumulative potential Not established.

Ammonium Molybdate Tetrahydrate (12054-85-2)
Bioaccumulative potential Not established.

12.4. Mobility in soil

Hydrochloric Acid, 37% w/w (7647-01-0)
Ecology - soil May be harmful to plant growth, blooming and fruit formation.

12.5. Other adverse effects

Effect on the global warming : No known effects from this product.
GWPmix comment : No known effects from this product.
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.
**Vanadate-Molybdate Reagent**

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## SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

- **Transport document description**: UN1789 Hydrochloric acid, 8, II
- **UN-No.(DOT)**: UN1789
- **Proper Shipping Name (DOT)**: Hydrochloric acid
- **Transport hazard class(es) (DOT)**: 8 - Class 8 - Corrosive material 49 CFR 173.136
- **Packing group (DOT)**: II - Medium Danger
- **Hazard labels (DOT)**: 8 - Corrosive

**DOT Packaging Non Bulk (49 CFR 173.xxx)**: 202

**DOT Packaging Bulk (49 CFR 173.xxx)**: 242

**DOT Special Provisions (49 CFR 172.102)**:

- A3 - For combination packaging, if glass inner packaging (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in outer packaging.
- A6 - For combination packaging, if plastic inner packaging are used, they must be packed in tightly closed metal receptacles before packing in outer packaging.
- B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not authorized.
- B15 - Packaging must be protected with non-metallic linings impervious to the lading or have a suitable corrosion allowance.
- IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
- N41 - Metal construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.
- T8 - 4 178.274(d)(2) Normal............... Prohibited

**DOT Packaging Exceptions (49 CFR 173.xxx)**: 154

**DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)**: 1 L

**DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)**: 30 L

**DOT Vessel Stowage Location**: C - The material must be stowed “on deck only” on a cargo vessel and on a passenger vessel.

**Other information**: No supplementary information available.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

**Vanadate-Molybdate Reagent**

- **SARA Section 311/312 Hazard Classes**: Immediate (acute) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

<table>
<thead>
<tr>
<th>Chemical(s)</th>
<th>CAS No</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid, 37% w/w</td>
<td>7647-01-0</td>
<td>13.66%</td>
</tr>
<tr>
<td>Ammonium Metavanadate</td>
<td>7803-55-6</td>
<td>0.13%</td>
</tr>
</tbody>
</table>
Vanadate-Molybdate Reagent
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### Hydrochloric Acid, 37% w/w (7647-01-0)

<table>
<thead>
<tr>
<th>Regulatory Flag</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA TSCA Regulatory Flag</td>
<td>T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.</td>
</tr>
<tr>
<td>RQ (Reportable quantity, section 304 of EPA’s List of Lists)</td>
<td>5000 lb</td>
</tr>
<tr>
<td>SARA Section 302 Threshold Planning Quantity (TPQ)</td>
<td>500 lb</td>
</tr>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
<td>Immediate (acute) health hazard</td>
</tr>
</tbody>
</table>

### Ammonium Metavanadate (7803-55-6)

<table>
<thead>
<tr>
<th>Regulatory Flag</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>RQ (Reportable quantity, section 304 of EPA’s List of Lists)</td>
<td>1000 lb</td>
</tr>
<tr>
<td>SARA Section 302 Threshold Planning Quantity (TPQ)</td>
<td>1000 lb</td>
</tr>
</tbody>
</table>

#### 15.2. International regulations

**CANADA**

<table>
<thead>
<tr>
<th>Substance</th>
<th>WHMIS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanadate-Molybdate Reagent</td>
<td>Class E - Corrosive Material</td>
</tr>
<tr>
<td>Hydrochloric Acid, 37% w/w (7647-01-0)</td>
<td>Class E - Corrosive Material</td>
</tr>
<tr>
<td>Water (7732-18-5)</td>
<td>Uncontrolled product according to WHMIS classification criteria</td>
</tr>
<tr>
<td>Ammonium Metavanadate (7803-55-6)</td>
<td>Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects</td>
</tr>
<tr>
<td>Ammonium Molybdate Tetrahydrate (12054-85-2)</td>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
</tr>
</tbody>
</table>

**EU-Regulations**

No additional information available

**National regulations**

<table>
<thead>
<tr>
<th>Substance</th>
<th>WHMIS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Molybdate Tetrahydrate (12054-85-2)</td>
<td>Listed on the Canadian IDL (Ingredient Disclosure List)</td>
</tr>
</tbody>
</table>

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

**Revision date** : 01/25/2017

**Other information** : None.

Full text of H-phrases: see section 16:

- **H301** Toxic if swallowed
- **H302** Harmful if swallowed
- **H314** Causes severe skin burns and eye damage
- **H315** Causes skin irritation
- **H318** Causes serious eye damage
- **H319** Causes serious eye irritation
- **H335** May cause respiratory irritation
- **H401** Toxic to aquatic life
- **H402** Harmful to aquatic life
Vanadate-Molybdate Reagent
Safety Data Sheet

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal protection : C
  - Safety glasses, Gloves, Synthetic apron

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