Sulfuric Acid, 0.1N

SECTION I - PRODUCT IDENTIFICATION

Product Name: Sulfuric Acid, 0.1N (Also applies to Sulfuric Acid, 1.0N)
Formula: H_2SO_4
Formula Wt: 98.08
CAS No.: 07664-93-9
NIOSH/RTECS No.: QS5600000
Product Codes:

PRECAUTIONARY LABELLING

HEALTH  FLAMMABILITY  REACTIVITY  CONTACT
2         0         1         3

Moderate None Slight Severe

Laboratory Protective Equipment

PRECAUTIONARY Label Statements

DANGER
CAUSES BURNS
HARMFUL IF SWALLOWED
Do not get in eyes, on skin, on clothing.
Keep in tightly closed container. Wash thoroughly after handling.

SECTION II - HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric Acid</td>
<td>07664-93-9</td>
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</tbody>
</table>

SECTION III - PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (H_2O=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure(mmHg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate=1)</td>
<td>N/A</td>
</tr>
</tbody>
</table>
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SECTION III - PHYSICAL DATA (Continued)

Solubility(H2O): Complete (in all proportions) % Volatiles by Volume: N/A

Appearance & Odor: Clear, odorless liquid.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A
NFPA 704H Rating: 3-0-2

Flammable Limits: Upper - N/A %  Lower - N/A %

Fire Extinguishing Media
Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Toxic Gases Produced
sulfur dioxide

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TLV): 1 mg/m³ (ppm)

Permissible Exposure Limit (PEL): 1 mg/m³ (ppm)

Carcinogenicity: NTP: No  IARC: No  Z List: No  OSHA reg: No

Effects of Overexposure
Contact with skin or eyes may cause severe irritation or burns.

Medical Conditions Generally Aggravated By Exposure
None Identified

Routes Of Entry
inhalation, ingestion, eye contact, skin contact

Emergency and First Aid Procedures
CALL A PHYSICIAN.
If swallowed, do NOT induce vomiting; if conscious, give water, milk, or milk of magnesia.
In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash clothing before re-use.

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SECTION VI - REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions to Avoid: none documented

Incompatibles: most common metals, strong bases

Decomposition Products: oxides of sulfur

SECTION VII - SPILL AND DISPOSAL PROCEDURES

Steps to be taken in the event of a spill or discharge
Wear self-contained breathing apparatus and full protective clothing. Stop leak if you can do so without risk. Ventilate area. Neutralize spill with soda ash or lime. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure:
Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: D002 (Corrosive Waste)

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use adequate general or local exhaust ventilation to keep vapor and mist levels as low as possible.

Respiratory Protection: A chemical cartridge respirator with organic vapor cartridge is recommended. If airborne concentration exceeds TLV, a self-contained breathing apparatus is advised.

Eye/Skin Protection: Safety goggles and face shield, uniform, protective suit, acid-resistant gloves are recommended.

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

Storage Color Code:

Special Precautions
Keep container tightly closed. Store in corrosion-proof area.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

Proper Shipping Name Sulfuric acid

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION (Continued)

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Corrosive material (liquid)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN/NA</td>
<td></td>
</tr>
<tr>
<td>Labels</td>
<td>CORROSIVE</td>
</tr>
<tr>
<td>Reportable Quantity</td>
<td>1000 LBS.</td>
</tr>
</tbody>
</table>

INTERNATIONAL (I.M.O.)

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>Sulphuric acid, less than 51% acid</th>
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</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>8</td>
</tr>
<tr>
<td>UN/NA</td>
<td>UN1830</td>
</tr>
<tr>
<td>Labels</td>
<td>CORROSIVE</td>
</tr>
</tbody>
</table>

V/A = Not Applicable or Not Available

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