1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Acetone
Product Number: 179124
Brand: Sigma-Aldrich
Product Use: For laboratory research purposes.
Supplier: Sigma-Aldrich
Manufacturer: Sigma-Aldrich Corporation
Telephone: +1 800-335-8832
Fax: +1 800-325-5055
Emergency Phone #: (314) 776-6555
Preparation Information: Sigma-Aldrich Corporation
Product Safety - Americas Region
1-800-521-9550

2. HAZARDS IDENTIFICATION

Emergency Overview:
OSHA Hazards: Flammable liquid, Target Organ Effect, Irritant
Target Organs: Liver, Kidney
GHS Classification:
Flammable liquids (Category 2)
Skin Irritation (Category 3)
Eye Irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)
GHS Label elements, including precautionary statements:
Signal word: Danger
Hazard statement(s):
H225: Highly flammable liquid and vapor.
H316: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
Precautionary statement(s):
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>64-17-5</td>
<td>200-652-2</td>
<td>606 001-00-8</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General advice:
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:
If breathed in, move person into fresh air, if not breathing, give artificial respiration. Consult a physician.
In case of skin contact:
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact:
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed:
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Conditions of flammability:
Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Suitable extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters:
Wear self-contained breathing apparatus for fire fighting if necessary.
Hazardous combustion products:
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Further information:
Use water spray to cool exposed containers.

6. ACCIDENTAL RELEASE MEASURES

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7. HANDLING AND STORAGE

- Personal protective equipment: Use respiratory protection where air-purifying respirators are appropriate, use a full-face respirator with eye protection where respiratory protection is not sufficient.
- Respiratory protection: Use a half-mask respirator with organic vapor or particulate filter, or a full-face respirator with eye protection.
- Protective clothing: Use non-flammable protective clothing that provides barrier protection.
- Protective gloves: Use nitrile gloves with suitable permeation resistance.
- Eye protection: Use splash goggles or face shield.
- Skin protection: Use non-porous protective clothing.
- Ventilation: Ensure adequate ventilation in work areas.
- Waste disposal: Disposal should be in accordance with local regulations.
- Spill response: Contains which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Value</th>
<th>Control Parameter</th>
<th>Basis</th>
<th>Toxicological Threshold Limit Value (TLV)</th>
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</thead>
<tbody>
<tr>
<td>Acrylate</td>
<td>67-64-1</td>
<td>[ ]</td>
<td>Acrylate</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Tox.</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

- The scale of TWA does not apply to the occupational exposure limits for all components.
- Acrylate: For TWA, not applicable.
- Acrylate: Not applicable to the occupational exposure limits for all components.
- Acrylate: The scale of TWA does not apply to the occupational exposure limits for all components.

Delivered: 1978/04/03
Receipt Order Code: 047520200120740000

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10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.
Possibility of hazardous reactions
Vapours may form explosive mixture with air.
Conditions to avoid
Heat, flames and sparks. Extreme of temperature and direct sunlight.
Materials to avoid
Bases, Oxidizing agents, Reducing agents. Acetone reacts violently with phosphorous oxychloride.
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD50
LD50 Oral - rat - 5,800 mg/kg

Inhalation LC50
LC50 Inhalation - rat - 6 h - 50,100 mg/m³

Dermal LD50
LD50 Dermal - guinea pig - 7,400 mg/kg

Other information on acute toxicity
no data available

Skin corrosion/irritation
Skin - rabbit - Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - rabbit - Eye irritation - 24 h

Respiratory or skin sensitization
Chronic exposure may cause dermatitis.

Germ cell mutagenicity
no data available

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP:
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA:
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

Teratogenicity
no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)
May cause dizziness or dizziness.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available

Aspiration hazard
no data available

Potential health effects
Inhalation
May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause dizziness or dizziness.

Ingestion
May be harmful if swallowed.

Skin
May be harmful if absorbed through skin. Causes skin irritation.

Eyes
Causes eye irritation.

Synergistic effects
no data available

RTECS: AL3150000
Additional Information

12. ECOLOGICAL INFORMATION

Toxicity
Toxicity to fish
LC50: Oncorhynchus mykiss (rainbow trout) - 5,540.00 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates
EC50: Daphnia magna (Water flea) - 13,650.00 mg/l - 48 h

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but extra care in lighting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

Sigma Aldrich - 192124
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