**SECTION 1 - CHEMICAL SAFETY DATA SHEET**

**MSDS Name:** Acetone

**Date and Time:** 08/13/2023

**Keep:** Material Safety Data Sheet

**Acetone**

**CAS Number:** 67-64-1

**UN Number:**

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**SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Chemical Formula</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>C3H6O</td>
<td>99.9%</td>
</tr>
</tbody>
</table>

**Risk Phrases:** I 36/37/38

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**SECTION 3 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

- **Appearance:** Colourless, flash point: 4 deg F.
- **Danger:** Extremely flammable liquid. May cause central nervous system depression, kidney damage, and liver damage. Causes eye and skin irritation. Causes digestive and respiratory tract irritation. Target organs: Kidneys, central nervous system, liver, respiratory system.
- **Potential Health Effects**
  - **Eye:** Produces irritation characterized by burning sensation, redness, tearing, inflammation, and possible permanent injury.
  - **Skin:** Exposure may cause irritation characterized by redness, dryness, and inflammation.
  - **Ingestion:** May cause irritation of the digestive tract. May cause central nervous system depression, kidney damage, and liver damage. Symptoms may include headache, excitement, fatigue, nausea, vomiting, stupor, and coma. May cause kidney and liver damage. May cause central nervous system depression, characterized by excitement followed by headaches, dizziness, drowsiness, and nausea. Advanced stages may cause collapse or unconsciousness, coma, and possible death due to respiratory failure.

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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 and lower eyelids. Get medical aid immediately.
- **Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately.
- **Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

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**SECTION 5 - FIRE FIGHTING MEASURES**

- **General Information:** containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Extremely flammable liquid. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. May be ignited by heat, sparks, and flash.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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

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**Spills/Leaks:** Absorb spill with inert material, (e.g., dry sand or earth), then place in an appropriate, labeled waste container. Avoid spread, sewers and ditches which lead to waterways. Wear appropriate protective clothing and ensure a minimum of 1 minute contact with water. Remove all sources of ignition. Provide ventilation. A vapor suppressing foam may be used to smother a fire. Water spray will reduce vapor, but may not prevent ignition in close spaces. Wash area with 2-5% solution of sodium carbonate.

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**SECTION 7 - HANDLING and STORAGE**

- **Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in well ventilated area. Ground and bond containers when transferring material. Avoid contact with skin, and clothing. Empty containers retain product residue, (liquid and solids) and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flares. Avoid ingestion and inhalation. Avoid prolonged or repeated skin contact. Wear personal protective equipment.

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**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

- **Engineering Controls:** Facilities storing or utilizing this material should be equipped with an appropriate local exhaust ventilation and a safety shower and eye wash station or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

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**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>NIOSH REL</th>
<th>ACGIH STEL</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>500 ppm</td>
<td>250 ppm</td>
<td>590</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>
DATE: 09/11/00 | ACCT: 800250001 | PAGE: 3
INDEX: D022536762 | CAT NO: A1920 | PO NBR: 61000

OSHA Vacated PELs:
2-Propanone:
- 790 ppm
- 1000 mg/m3 TWA

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical splash goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149 approved respirator when necessary.

*** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ***

Physical State: Liquid
Color: Colorless
Odor: Sweetish odor - Musky
PH: 5.7
Vapor Pressure: 180 mm Hg
Vapor Density: 2.0 (Air=1)
Boiling Point: 133.2 deg F
Flash Point: 869 deg F (465.00 deg C)
NHFRA Rating: Health: 1; Flammability: 3; Reactivity: 0
Decomposition Temperature: Above 125.0...

Solubility: Soluble
Specific Gravity/Density: 0.78 (Water=1)
Molecular Formula: C3H6O
Molecular Weight: 58.0414

*** SECTION 10 - STABILITY AND REACTIVITY ***

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid:
- High temperatures, ignition sources, temperatures above 220 deg C.
- Incompatibility with other materials:
  - Acids (mineral, non-oxidizing, e.g. hydrochloric acid, hydrofluoric acid, nitric acid, sulfuric acid, phosphoric acid, acetic acid, benzoic acid, formaldehyde, acetic anhydride, methyl alcohol, ethylene glycol), aldehydes (e.g. acetaldehyde, acrolein), chlorinated hydrocarbons, ethers (e.g. diethyl ether), aldehydes (e.g. formaldehyde, methyl alcohol), alcohols (e.g. methanol, ethanol, isopropyl alcohol), ketones (e.g. acetone), esters (e.g. butyl acetate, ethyl acetate).

Hazards of Decomposition Products:
- Carbon monoxide, CO.
- Carbon dioxide, CO2.

Hazardous Polymerization: Has not been reported.

*** SECTION 11 - TOXICOLOGICAL INFORMATION ***

RTFEC:

LC50/LC90:
- LC50 (oral, rat): 5010 mg/m3/8HR
- LC90 (oral, rat): 5930 mg/m3/8HR
- LD50/LD90:
  - Oral, mouse: 5000 mg/kg
  - Oral, rabbit: 5000 mg/kg

Carcinogenicity:
- Not listed by IARC, NTP, or OSHA.

*** SECTION 12 - ECOLOGICAL INFORMATION ***

Ecotoxicity:
- Rainbow trout LC50 = 5540 mg/L/96H
- Sunfish (top water), death at 114250 mg/L

*** SECTION 13 - DISPOSAL CONSIDERATIONS ***

Dispose of in a manner consistent with federal, state, and local regulations.

RCA F-Series: None listed.
RCA U-Series: CAS# 67-64-1, waste number U002.

*** SECTION 14 - TRANSPORT INFORMATION ***

US DOT:
- Shipping Name: ACETONE
- Hazard Class: 3
- UN Number: UN1090
- Packing Group: II

Canadian TDG:
- Shipping Name: ACETONE
- Hazard Class: 3
- UN Number: UN1090

Other Information: Flashpoint = 20 C

*** SECTION 15 - REGULATORY INFORMATION ***

US FEDERAL

TSCA:
- CAS# 67-64-1 is listed on the TSCA inventory.
- Health and 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 SHON under TSCA.

SARA:
- Section 302 (RC): CAS# 67-64-1: final RC = 5000 pounds (2270 kg)
- Section 311:
  - None of the chemicals in this product have a TPQ.
- Section 313:
  - None of the chemicals are reportable under Section 313.

Clean Air Act:
- None of the chemicals in this product are listed as Hazardous Substances under the CAA.

Clean Water Act:
- None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
None of the chemicals in this product are considered highly hazardous.

STATE
2-Propanone can be found on the following state right to know lists:
California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.
California No Significant Risk Level.
None of the chemicals in this product are listed.

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols: XI F
Risk Phrases:
R 11 Highly flammable.
R 36 Irritating to eyes.
R 68 Repeated exposure may cause skin dryness or cracking.

Safety Phrases:
S 67 Vapors may cause drowsiness and dizziness.
S 9 Keep container in a well-ventilated place.
S 15 Keep away from sources of ignition. No smoking.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WOK (Water Danger/Protection)

United Kingdom Occupational Exposure Limits
CAS# 67-64-1: OEH-United Kingdom, TWA 750 ppm; STEL 1500 ppm; 3620 mg/m³;

CAS# 67-64-1: OHS-United Kingdom, TWA 1910 mg/m³; STEL 3620 mg/m³;

Canada
CAS# 67-64-1 is listed on Canada’s DDSL/NDSL List.
This product has a WMNIS classification of B2; D2B.
CAS# 67-64-1 is not listed on Canada’s Ingredient Disclosure List.

Exposure Limits
CAS# 67-64-1: OSH-UNITED KINGDOM; TWA 750 ppm (1780 mg/m³); STEL 1500 ppm;

CAS# 67-64-1: OHL-AUSTRALIA; TWA 500 ppm (1165 mg/m³); STEL 1000 ppm;

*** SECTION 16 - ADDITIONAL INFORMATION ***

MSDS Creation Date: 7/16/1999 Revision #: Date: 4/30/2000

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if the company has been advised of the possibility of such damages.