# Material Safety Data Sheet

## Section 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name / Trade name</th>
<th>Acetone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonym</td>
<td>2-propanone, Dimethyl ketone</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>Aliphatic ketone. (Solvent.)</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>CH₃COCH₃</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Recochem Inc. 850 Montee de Liesse Montreal, Quebec 514-341-3550</td>
</tr>
<tr>
<td>Material Uses</td>
<td>Consumer products: Solvent.</td>
</tr>
</tbody>
</table>

## Section 2. Hazardous Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
<th>Canadian Values (ACGIH)</th>
<th>U.S. Values (OSHA)</th>
</tr>
</thead>
</table>

1) TWA: 1000 ppm from OSHA (United States, 1999). Period: 8 hour(s). TWA: 2400 mg/m³ from OSHA (United States, 1999). Period: 8 hour(s).

## Section 3. Emergency Overview

### Hazard Overview

**DANGER**

POISON. EXTREMELY FLAMMABLE LIQUID AND VAPOUR. Vapour harmful.

Keep away from heat, sparks and flame. DO NOT ingest. Avoid contact with eyes. Avoid breathing vapours or spray mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Aspiration hazard if swallowed- can enter lungs and cause damage.

### Potential Acute Health Effects

Hazardous in case of eye contact (irritant). Slightly hazardous in case of ingestion, of inhalation. May cause central nervous system depression.

### Note to Physician

Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possible death.

## Section 4. First Aid Measures

### Eye Contact

IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. SEEK IMMEDIATE MEDICAL ATTENTION.

### Skin Contact

Wash with soap and water. Get medical attention if irritation develops.

### Inhalation

Allow the victim to rest in a well ventilated area. Seek medical attention.

### Ingestion

DO NOT induce vomiting. If affected person is conscious give plenty of water to drink. NEVER give an unconscious person anything to ingest. If vomiting occurs, keep head lower than hips to help prevent aspiration. SEEK IMMEDIATE MEDICAL ATTENTION.

Continued on Next Page
**Section 5. Fire Fighting Measures**

**Products of Combustion**
These products are carbon oxides (CO, CO₂).

**Fire Fighting Media and Instructions**
- Flammable liquid, soluble or dispersed in water.
- SMALL FIRE: Use DRY chemical powder.
- LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosion.

**Fire Hazards**
EXTREMELY FLAMMABLE LIQUID AND VAPOR.

**Explosion Hazards**
Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Vapour forms explosive mixture with air between upper and lower flammable limits.

**Section 6. Accidental Release Measures**

**Small Spill and Leak**
Mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container.

**Large Spill and Leak**
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Place in appropriate container and dispose of in accordance with regional regulations.

**Section 7. Handling and Storage**

**Handling**
Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Handle and open container with care. After handling, always wash hands thoroughly with soap and water.

**Storage**
Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 38°C (100.4°F). Keep away from incompatibles.

**Section 8. Exposure Controls, Personal Protection**

**Engineering Controls**
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection**

- **Eyes**
  Splash goggles.

- **Body**
  No special protective clothing is required.

- **Respiratory**
  Organic vapour cartridge respirator.

- **Hands**
  Gloves (impervious).

**Section 9. Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Physical State and Appearance</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid.</td>
<td>Characteristic.</td>
</tr>
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<table>
<thead>
<tr>
<th>Molecular Weight</th>
<th>Taste</th>
</tr>
</thead>
<tbody>
<tr>
<td>58.08 g/mole</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>pH (1% Soln/Water)</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Colorless.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling/Condensation Point</th>
<th>Volatility</th>
</tr>
</thead>
<tbody>
<tr>
<td>56°C (132.8°F)</td>
<td>100% (v/v).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Melting/Freezing Point</th>
<th>Evaporation Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>-95°C (-139°F)</td>
<td>5.6 compared to Butyl acetate.</td>
</tr>
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<thead>
<tr>
<th>Specific Gravity</th>
<th>Odor Threshold</th>
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<tbody>
<tr>
<td>0.79 (Water = 1)</td>
<td>100 ppm</td>
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<thead>
<tr>
<th>Vapor Pressure</th>
<th>Viscosity</th>
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</thead>
<tbody>
<tr>
<td>186.2 mm of Hg (@ 20°C)</td>
<td>Kinetic: 0.4 cS (@ 20°C)</td>
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<table>
<thead>
<tr>
<th>Vapor Density</th>
<th>Solubility</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 (Air = 1)</td>
<td>Soluble in water, methanol, diethyl ether. Partially soluble in n-octanol.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VOC Content</th>
<th>Other Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>791 (g/l)</td>
<td>Not available.</td>
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<table>
<thead>
<tr>
<th>The Product is:</th>
<th>Flammable.</th>
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<table>
<thead>
<tr>
<th>Autoignition Temperature</th>
<th>Flash Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>465°C (869°F)</td>
<td>CLOSED CUP: -18°C (-0.4°F). (Tagliabue.)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammable Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOWER: 2.6%</td>
</tr>
<tr>
<td>UPPER: 12.8%</td>
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</tbody>
</table>

**Continued on Next Page**
**Section 10. Stability and Reactivity**

**Stability**
The product is stable.

**Conditions of Instability**
No additional remark.

**Incompatibility with Various Substances**
Slightly reactive to reactive with oxidizing agents, reducing agents, acids, alkalis.

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**Section 11. Toxicological Information**

**Routes of Entry**
Absorbed through skin. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals**
Acute oral toxicity (LD50): 5800 mg/kg [Rat].
Acute dermal toxicity (LD50): 16000 mg/kg [Rabbit].

**Acute Effects on Humans**
- **Eyes**: May cause eye irritation.
- **Skin**: Can cause dermatitis.
- **Inhalation**: Practically non-toxic by inhalation. Over-exposure by inhalation may cause respiratory irritation. May cause central nervous system depression.
- **Ingestion**: Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possible death.

**Chronic Effects on Humans**
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, D (Not classifiable for human or animal.) by EPA.
MUTAGENIC EFFECTS: Non-mutagenic for bacteria and/or yeast.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Prolonged exposure can cause dermatitis.

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**Section 12. Ecological Information**

**Ecotoxicity**
Not available.

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**Section 13. Disposal Considerations**

**Waste Information**
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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**Section 14. Transport Information**

**TDG Classification (Canada)**
Class 3: Flammable liquid.

**PIN (Canada)**
Shipping name: Acetone UNNA: UN 1090 PG: II

**Special Provisions for Transport (Canada)**
In containers of 1 L capacity or less this product is classified as a "Consumer Commodity" under TDG regulations.

**IMDG Classification**
3.1

**PIN**
Shipping name: Acetone UNNA: UN 1090 PG: II

**Marine Pollutant**
Not pollutant.

**DOT Classification (U.S.A)**
Class 3: Flammable liquid.

**PIN**
Acetone, 3, UN 1090, II, Not pollutant.

**Special Provisions for Transport (U.S.)**
Containers of 1 L or less ship as:
- **Class**: ORM-D
- **Name**: Consumer Commodity

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Continued on Next Page
Section 15. Other Regulatory Information and Pictograms

WHMIS Classification (Canada)
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).
Class D-2B: Material causing other toxic effects (TOXIC).

HCS Classification (U.S.A.)
Class: Flammable liquid having a flash point lower than 37.8°C (100°F).

USA Regulatory Lists
TSCA inventory: 2-propanone

Hazardous Material Information System (U.S.A.)
Health: 1
Flammability: 3
Reactivity: 0
Personal Protection: J

National Fire Protection Association (U.S.A.)
Health: 1
Flammability: 3
Reactivity: 0
Specific Hazard

Section 16. Other Information

Notice to Reader
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.