MATERIAL SAFETY DATA SHEET
METHYL-N-PROPYL KETONE

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** Methyl-N-Propyl Ketone  
**Synonyms:** 2-Pentanone  
**Company Identification:** Sisco Research Laboratories Pvt. Ltd.  
Andheri (East), Mumbai – 400 099.  
**Tel:** +91 22 2687 2601  
**Fax:** +91 22 2687 8241  
**Website:** www.srlchem.com

2 - COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name: Methyl-N-Propyl Ketone</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-87-9</td>
<td></td>
<td>99%</td>
<td>203-528-1</td>
</tr>
</tbody>
</table>

3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**
Highly flammable. Harmful if swallowed. Irritating to eyes, respiratory system and skin.

**Potential Health Effects**

**Eye:** Causes eye irritation. Causes redness and pain.

**Skin:** Causes skin irritation.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause unconsciousness. May cause headache, nausea, fatigue, and dizziness.

**Inhalation:** Causes respiratory tract irritation. Inhalation of high concentrations may cause narcotic effects. May be harmful if inhaled. Inhalation of vapors may cause nausea, vomiting, dizziness, and loss of consciousness.

**Chronic:**

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.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.
5 - FIRE FIGHTING MEASURES

General Information: 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. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide.

6 - ACCIDENTAL RELEASE MEASURES

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

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.

7 – HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Keep away from heat, sparks and flame.

Storage: Keep away from heat, sparks, and flame. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

CAS# 107-87-9:
United Kingdom, WEL - TWA: 200 ppm TWA; 716 mg/m3 TWA
United Kingdom, WEL - STEL: 250 ppm STEL; 895 mg/m3 STEL
United States OSHA: 200 ppm TWA; 700 mg/m3 STEL
Belgium - TWA: 200 ppm VLE; 715 mg/m3 VLE
Belgium - STEL: 250 ppm VLE; 894 mg/m3 VLE
France - VME: 200 ppm VME; 705 mg/m3 VME
Germany: 200 ppm TWA; 710 mg/m³ TWA  
Malaysia: 200 ppm TWA; 705 mg/m³ TWA  
Netherlands: 200 ppm MAC; 700 mg/m³ MAC  
Spain: 200 ppm VLA-ED; 715 mg/m³ VLA-ED  
Spain: 250 ppm VLA-EC; 894 mg/m³ VLA-EC

**Personal Protective Equipment**

**Eyes:**  
Wear chemical splash goggles.

**Skin:**  
Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**  
Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**  
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>100 - 103 deg C</td>
</tr>
<tr>
<td>Specific Gravity/Density</td>
<td>0.805-0.806</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C₅H₁₀O</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>86.14</td>
</tr>
</tbody>
</table>

### 10 - STABILITY AND REACTIVITY

**Chemical Stability:**  
Stable under normal temperatures and pressures.

**Conditions to Avoid:**  
Incompatible materials, ignition sources.

**Incompatibilities with Other Materials:**  
Ignition sources, reducing agents, strong bases, peroxides.

**Hazardous Decomposition Products:**  
Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:**  
Will not occur.

### 11 - TOXICOLOGICAL INFORMATION

**RTECS#:**  
CAS# 107-87-9: SA7875000

**LD₅₀/LC₅₀:**  
RTECS: **CAS# 107-87-9:** Inhalation, mouse:  
LC₅₀ = 22000 mg/m³/2H;  
Oral, mouse: LD₅₀ = 1600 mg/kg;  
Oral, rat: LD₅₀ = 1600 mg/kg;  
Skin, rabbit: LD₅₀ = 6500 mg/kg;

**Carcinogenicity:**  
2-Pentanone - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:**  
See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.
12 - ECOLOGICAL INFORMATION

Ecotoxicity: Daphnia: Daphnia: EC50: >810 mg/L; 96h; .
Other: Avoid entering into waters or underground water. Readily biodegradable. Log POW: 0.91

13 - DISPOSAL CONSIDERATIONS

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

14 - TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Propyl</td>
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<tr>
<td>Ketone</td>
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</tbody>
</table>

Hazard Class: 3
UN Number: 1249
Packing Group: II

15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XN F
Risk Phrases: R 11 Highly flammable. R 22 Harmful if swallowed. R 36/37/38 Irritating to eyes, respiratory system and skin.
Safety Phrases: S 16 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. S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)CAS# 107-87-9: 1
Canada CAS# 107-87-9 is listed on Canada's DSL List
US Federal TSCA CAS# 107-87-9 is listed on the TSCA Inventory.

16 - ADDITIONAL INFORMATION

SISCO RESEARCH LABORATORIES provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.