IDENTITY (As Used on Label and List)
3-hydroxy-2-hexanone

Section I
Manufacturer's Name: Synergy Semiochemicals Corporation
Emergency Telephone Number: CANUTEC @ 1-(613)-996-6666
Address: 7572 Progress Way, Delta, British Columbia, Canada, V4G 1E9

Section II - Hazardous Ingredients/Identity Information
Hazardous Components (Specific Chemical Identity; Common Name(s))

<table>
<thead>
<tr>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3-hydroxy-2-hexanone CAS 54123-75-0

Section III - Physical/Chemical Characteristics
Boiling Point: 163°C
Specific Gravity (H₂O = 1): 0.948
Vapour Pressure (mm Hg): N/A
Melting Point: N/A
Vapour Density (AIR = 1): >1
Evaporation Rate (Butyl Acetate = 1): <1
Solubility in Water: Insoluble
Appearance and Odour: Yellow liquid with characteristic odor packaged in release device.
Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) | Flammable Limits | LEL | UEL
---|---|---|---
67 C, closed cup | N/A | N/A | N/A

Extinguishing Media
Carbon dioxide, dry chemical, foam. Do not use water.

Special Fire Fighting Procedures
Use water spray to cool fire exposed containers. Firefighters & other exposed to product of combustion should wear self-contained breathing apparatus & full firefighting protective clothing. Dike area to prevent runoff.

Unusual Fire and Explosion Hazards
When heated, material and vapours are a moderate fire hazard.

Section V - Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unstable</td>
<td>Exposure to oxidizing agents or open flame</td>
</tr>
<tr>
<td>Stable</td>
<td>X</td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid)
Oxidizing agents, chlorinating agents, strong acids, strong heating or flame

Hazardous Decomposition or Byproducts
Oxides of carbon. Incomplete combustion generates aldehydes and acids

<table>
<thead>
<tr>
<th>Hazardous Polymerization</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>May Occur</td>
<td>X</td>
</tr>
<tr>
<td>Will Not Occur</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Section VI - Health Hazard Data

Route(s) of Entry:  
Inhalation? | Skin? | Ingestion?
---|---|---
YES | YES | YES

Health Hazards (Acute and Chronic)
Mucous membrane, skin, eye and respiratory tract irritant. May be an allergic sensitizer in some individuals. Release device is non-hazardous if not punctured.

Carcinogenicity:  
NTP? | IARC Monographs? | OSHA Regulated?
---|---|---
NO | NO | NO

This material is not known to be carcinogenic

Signs and Symptoms of Exposure
Exposure to small amounts is likely to be asymptomatic. Larger amounts may cause irritation of skin, eyes, or mucous membranes. Ingestion may lead to nausea and vomiting. Inhalation of large amounts of vapour may produce dizziness, headache, chest pain, and in severe cases pulmonary oedema, cyanosis and intoxication leading to unconsciousness.

If concerned about exposure levels, remove victim to fresh air and contact your local poison control centre.
Section VI - Health Hazard Data cont’d.

Medical Conditions Generally Aggravated by Exposure
Dermatitis, pneumonia, upper respiratory tract irritation.

Emergency and First Aid Procedures
Remove affected to fresh air. For skin contact, wash affected area with warm soapy water. For eye contact, wash eyes thoroughly with cold water. Treat symptomatically and supportively.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Provide adequate ventilation to remove fumes from spill area. Personnel should use protection against contact with liquids & against breathing large amounts of vapours. Pick up with absorbent material & place in waste disposal container. Use vermiculite or other suitable absorbent. Flush area with water.

Waste Disposal Method
Incineration or sanitary disposal in accordance with local regulations

Precautions to Be taken in Handling and Storing
Flammable liquid. Store in well ventilated, cool dry place away from sources of heat & ignition. No smoking in areas of storage or use.

Other Precautions
N/A

Section VIII - Control Measures

Respiratory Protection (Specify Type)
For high exposures, use NIOSH approved air line or self contained respirators. Eye protection may be needed to prevent eye irritation from high levels of vapours.

Ventilation
<table>
<thead>
<tr>
<th>Local Exhaust</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>N/A</td>
</tr>
<tr>
<td>Mechanical (General)</td>
<td>Other</td>
</tr>
<tr>
<td>YES</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Protective Gloves
Organic resistant, e.g. Butyl rubber

Eye Protection
Organic resistant

Other Protective Clothing or Equipment
Provide eye wash station, safety shower, and suitable cleanup materials in case of spill.

Work/Hygienic Practices
Avoid contact with skin and eyes. Do not eat, drink, or smoke when handling material. Release devices are non-hazardous if not punctured.