Material Safety Data Sheet
Azacyclonol

SECTION 1.1 – PRODUCT IDENTIFICATION

Product Name: Azacyclonol
Molecular Formula: C_{18}H_{21}N O
Molecular Weight: 267.36 g/mol
CAS No.: 115-46-8

SECTION: 1.2 – COMPANY IDENTIFICATION

Company Name: Indenta Chemicals (India) Pvt. Ltd.
Address: 117, The Summit Business Bay, Opp Cinemax, Off. Sir M.V. Road, Near WEH Metro Station, Andheri (E), Mumbai 400 093, India
Telephone #: +91-22-26849600
Fax #: +91-22-26849060

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azacyclonol</td>
<td>115-46-8</td>
<td>&gt;95</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients: Azacyclonol LD50: Not available. LC50: Not available.

SECTION 3: HAZARD IDENTIFICATION

Potential Acute Health Effects: Hazardous in case of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion,
Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

SECTION 4: FIRST AID MEASURES

General Advice: If symptoms persist, call a physician.
Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion: Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
**Most important symptoms/effects:** None reasonably foreseeable.

**Notes to Physician:** Treat symptomatically

### SECTION 5: FIRE AND EXPLOSION DATA

**Suitable Extinguishing Media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable Extinguishing Media** No information available

**Flash Point** No information available

**Method** No information available

**Autoignition Temperature** Not applicable

**Explosion Limits**
- **Upper** No data available
- **Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

**Specific Hazards Arising from the Chemical**
Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**
Thermal decomposition can lead to release of irritating gases and vapors Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx)

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

**Environmental Precautions:** Should not be released into the environment. See Section 12 for additional ecological information.

**Methods for Containment and Clean Up:** Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

### SECTION 7: HANDLING AND STORAGE

**Handling:** Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place.

### SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures:** Ensure adequate ventilation, especially in confined areas. Ventilation systems. Ensure that eyewash stations and safety showers are close to the workstation location

**Personal Protective Equipment**
- **Eye/face Protection** Tightly fitting safety goggles.
- **Skin and body protection** Long sleeved clothing.
- **Respiratory Protection** No protective equipment is needed under normal use conditions.
- **Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder Solid
Appearance: Beige
Odor: No information available
Odor Threshold: No information available
pH: No information available
Melting Point/Range: 160 - 163 °C / 320 - 325.4 °F
Boiling Point/Range: No information available
Flash Point: No information available
Evaporation Rate: Not applicable
Flammability (solid,gas): No information available
Flammability or explosive limits
Upper: No data available
Lower: No data available
Vapor Pressure: No information available
Vapor Density: Not applicable
Relative Density: No information available
Solubility: No information available
Partition coefficient; n-octanol/water: No data available
Autoignition Temperature: Not applicable
Decomposition Temperature: No information available
Viscosity: Not applicable
Molecular Formula: C_{18}H_{21}NO
Molecular Weight: 267.36

SECTION 10: STABILITY AND REACTIVITY

Reactive Hazard: None known, based on information available
Stability: Stable under normal conditions.
Incompatible Materials: Oxidizing agents
Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating gases and vapors, Carbon Monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)
Hazardous Polymerization: Hazardous polymerization does not occur.
Hazardous Reactions: None under normal processing.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity
Product Information
Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azacyclonol</td>
<td>650 mg/kg (Mouse)</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Toxicologically Synergistic Products: No information available
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Irritation: No information available
Sensitization: No information available
Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.
Component | CAS-No | IARC | NTP | ACGIH | OSHA | Mexico
--- | --- | --- | --- | --- | --- | ---
Azacyclonol | 115-46-8 | Not listed | Not listed | Not listed | Not listed | Not listed

**Mutagenic Effects** No information available  
**Reproductive Effects** No information available.  
**Developmental Effects** No information available.  
**Teratogenicity** No information available.  
**STOT - single exposure** None known  
**STOT - repeated exposure** None known  
**Aspiration hazard** No information available  
**Symptoms / effects, both acute and delayed** No information available  
**Endocrine Disruptor Information** No information available  
**Other Adverse Effects** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Do not empty into drains.  
**Persistence and Degradability:** Persistence is unlikely  
**Bioaccumulation/ Accumulation:** No information available.  
**Mobility:** No information available.

### SECTION 13: DISPOSAL CONSIDERATION

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### SECTION 14: TRANSPORT INFORMATION

**DOT** Not regulated  
**TDG** Not regulated  
**IATA** Not regulated  
**IMDG/IMO** Not regulated

### SECTION 15: OTHER REGULATORY INFORMATION

**U.S. Federal Regulations**  
**TSCA 12(b)** Not applicable  
**SARA 313** Not applicable  
**SARA 311/312** Hazardous Categorization  
**Acute Health Hazard** Yes  
**Chronic Health Hazard** No  
**Fire Hazard** No  
**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No  
**Clean Water Act** Not applicable  
**Clean Air Act** Not applicable  
**OSHA Occupational Safety and Health Administration** Not applicable
CERCLA Not applicable
California Proposition 65 This product does not contain any Proposition 65 chemicals
State Right-to-Know Not applicable
U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N
U.S. Department of Homeland Security
This product does not contain any DHS chemicals.
Other International Regulations
Mexico - Grade No information available
Canada This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR
WHMIS Hazard Class
D1B Toxic materials
D2B Toxic materials

SECTION 16: ADDITIONAL INFORMATION

This information is provided for documentation purposes only.
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