1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 216221

Product name: alpha-NAPHTHOLBENZEIN

Supplier: MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>ACGIH Exposure Limits:</th>
<th>OSHA Exposure Limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>alpha-NAPHTHOLBENZEIN</td>
<td>145-50-6</td>
<td>90 - 100%</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause irritation to the eyes, skin and respiratory system.

Category of Danger: Irritant

Principle routes of exposure: Skin
Inhalation: Irritating to respiratory system
Ingestion: Irritating to mouth, throat and stomach
Skin contact: Irritating to skin.
Eye contact: Contact with eyes may cause irritation

ANSI Classification Irritant - eye, skin, respiratory

Statements of hazard May Cause Eye, Skin and Respiratory Tract irritation.

Statement of Spill or Leak - ANSI Label Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment.

Statement of First Aid In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Precautions - ANSI Label Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid breathing vapors. Avoid prolonged or repeated contact with the skin, eyes or respiratory tract. Wash thoroughly after exposure.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation: Move to fresh air. Call a physician immediately.
### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Use dry chemical, CO2, water spray or "alcohol" foam

**Specific hazards:** Burning produces irritant fumes.

**Unusual hazards:** None known

**Special protective equipment for firefighters:** Wear self contained breathing apparatus for fire fighting if necessary.

**Specific methods:** Water mist may be used to cool closed containers.

**Flash point:** Not determined

**Autoignition temperature:** Not determined

**NFPA rating:**
- NFPA Health: 1
- NFPA Flammability: 1
- NFPA Reactivity: 0

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment.

**Environmental precautions:** Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:** Soak up with inert absorbent material.

### 7. HANDLING AND STORAGE

**Storage:** ROOM TEMPERATURE

**Handling:** Use only in area provided with appropriate exhaust ventilation.

**Safe handling advice:** Wear personal protective equipment. Remove and wash contaminated clothing before reuse.

**Technical measures/storage conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place.

**Incompatible products:** Oxidising and spontaneously flammable products

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

**PERSONAL PROTECTIVE EQUIPMENT**

- **Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.
- **Hand protection:** PVC or other plastic material gloves
- **Skin and body protection:** Impervious clothing
- **Eye protection:** Goggles

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>C27H18O2</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>374.438</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No data available at this time.</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>No Data available at this time.</td>
</tr>
<tr>
<td>Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility (in water)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable under recommended storage conditions.</td>
</tr>
<tr>
<td>Polymerization</td>
<td>None under normal processing.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>Strong oxidising agents</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Exposure to air or moisture over prolonged periods.</td>
</tr>
</tbody>
</table>

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td></td>
</tr>
<tr>
<td>RTECS Number</td>
<td>Not Available</td>
</tr>
<tr>
<td>Selected LD50s and LC50s</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Chronic toxicity</td>
<td>Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.</td>
</tr>
<tr>
<td>Local effects</td>
<td>Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.</td>
</tr>
<tr>
<td>Specific effects</td>
<td>May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.</td>
</tr>
<tr>
<td>Primary irritation</td>
<td>A primary irritant.</td>
</tr>
<tr>
<td>Carcinogenic effects</td>
<td>No data is available on the product itself.</td>
</tr>
<tr>
<td>Mutagenic effects</td>
<td>No data is available on the product itself.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No data is available on the product itself.</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility</td>
<td>No data available</td>
</tr>
<tr>
<td>Bioaccumulation</td>
<td>No data available</td>
</tr>
<tr>
<td>Ecotoxicity effects</td>
<td>No data available</td>
</tr>
<tr>
<td>Aquatic toxicity</td>
<td>May cause long-term adverse effects in the aquatic environment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. DOT - Appendix B - Marine Pollutant</th>
<th>U.S. DOT - Appendix B - Severe Marine Pollutants</th>
<th>United Kingdom - The Red List:</th>
</tr>
</thead>
<tbody>
<tr>
<td>alpha-NAPHTHOLBENZEIN</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Catalog Number: 216221
Product name: alpha-NAPHTHOLBENZEIN
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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

Methods for cleaning up: Soak up with inert absorbent material.

14. TRANSPORT INFORMATION

UN/Id No: Not regulated

DOT: Proper shipping name: Not Regulated

Components alpha-NAPHTHOLBENZIEIN U.S. DOT - Appendix A Table 1 - Reportable Quantities Not Listed

TDG (Canada):
WHMIS hazard class: D2b toxic materials

IMDG/IMO

IMDG - Hazard Classifications Not Applicable

Components alpha-NAPHTHOLBENZIEIN U.S. DOT - Appendix B - Marine Pollutant Not Listed

IMO-labels:
Catalog Number: 216221
15. REGULATORY INFORMATION

International Inventories

Components
alpha-NAPHTHOLBENZEIN

Inventory - United States TSCA - Sect. 8(b)  Present
Canada DSL Inventory List -  Present
Australia (AICS):  Present
Inventory - China:  Present
EU EINECS List - 205-656-3; C27H18O2
Korean KECL:  KE-20725
Philippines PICCS:  Present

U.S. regulations:

Components
alpha-NAPHTHOLBENZEIN

California Proposition 65 - Not Listed
Massachusetts Right to Know List:  Not Listed
New Jersey Right to Know List:  Not Listed
Pennsylvania Right to Know List:  Not Listed

Florida substance List:  Not Listed
Rhode Island Right to Know List:  Not Listed
Illinois - Toxic Air Contaminants:  Not Listed
Connecticut - Hazardous Air Pollutants:  Not Listed

SARA 313 Notification:
The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification:
The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet