CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMMON NAME: CID (Product is classified as an article by the manufacturer)

CHEMICAL NAME: Polyurethane foam impregnated with amine salts

FORMULA: Mixture

PRODUCT CAS NO.: Mixture

SUPPLIER: Cooper Industries/Crouse-Hinds Division

ADDRESS: P.O. Box 4999

CITY, STATE, ZIP: Syracuse, NY 13221-4999

PHONE: (315)477-7000 Emergency Phone: 1-800-424-9300 (CHEMTREC)

INGREDIENTS: COMPOSITION/INFORMATION

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>PEL-OSHA</th>
<th>TLV-ACGIH</th>
<th>LD 50/LC 50 ROUTE/SPECIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane</td>
<td>None Established</td>
<td>None Established</td>
<td>No Data</td>
</tr>
<tr>
<td>CAS: No Data</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTECS: No Data</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade Secret (amine salt)</td>
<td>15 mg/m3 for Nuisance dust</td>
<td>10mg/m3 for Nuisance dust</td>
<td>675 mg/kg oral/rat</td>
</tr>
<tr>
<td>CAS: Trade Secret</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTECS: Trade Secret</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: Eye contact with active ingredient in foam (amine salt) will produce irritation.
SKIN: Prolonged or repeated contact may cause mild skin irritation.

INHALATION: Inhalation is not anticipated due to low vapor pressure of the active ingredient.

INGESTION: Ingestion is harmful and may be fatal. Ingestion may cause gastrointestinal (GI) irritation, change of blood hemoglobin to methemoglobin (methemoglobinemia), and vascular collapse from smooth muscle relaxation of small blood vessels.

SIGNS AND SYMPTOMS: Contact may cause eye irritation. Prolonged or repeated contact may cause mild skin irritation. Methemoglobinemia may occur following ingestion. Methemoglobin cannot carry oxygen as normal blood hemoglobin does. Symptoms of methemoglobinemia may include: headache, tiredness, dizziness, central nervous system (CNS) depression, irregular heartbeat (cardiac arrhythmia) and shock.

POTENTIAL HEALTH EFFECTS

CHRONIC: No Data

CARCINOGENICITY

IARC: No  NTP: No  OSHA: No

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with anemia, coronary artery disease or chronic obstructive pulmonary disease are more susceptible to the symptoms of methemoglobinemia.

TARGET ORGANS: Eyes, skin, blood

FIRST AID MEASURES

EYE CONTACT: Flush eyes with large amounts of lukewarm water for 15 minutes. If irritation persists, get medical attention.

SKIN CONTACT: Wash skin thoroughly with soap and water. If irritation persists, get medical attention.

INHALATION: Acute exposure is not anticipated. If overcome by fumes from heated product, immediately remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

OTHER: If accidental ingestion occurs, do not induce vomiting. CALL A POISON CONTROL CENTER AND GET IMMEDIATE MEDICAL ATTENTION.

FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
**FLASH POINT:** Non-Flammable  

<table>
<thead>
<tr>
<th>NFPA HAZARD CLASSIFICATION:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HEALTH:</strong> 2</td>
<td><strong>FLAMMABILITY:</strong> 1</td>
</tr>
<tr>
<td><strong>REACTIVITY:</strong> 0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FLAMMABLE LIMITS:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LEL:</strong> No Data</td>
<td><strong>UEL:</strong> No Data</td>
</tr>
</tbody>
</table>

**EXTINGUISHING MEDIA:** Water, carbon dioxide, dry chemical.

**FIRE AND EXPLOSION HAZARDS:** Polyurethane foam burns rapidly forming thick smoke. Thermal decomposition produces toxic fumes which may include nitrogen and carbon oxides, hydrogen cyanide (HCN), and other oxidation products.

**FIRE FIGHTING EQUIPMENT:** Firefighters should wear a NIOSH/MSHA-approved, full-facepiece self-contained breathing apparatus (SCBA) operated in positive pressure mode and full turnout gear with additional chemical protective clothing for decomposition products.

### HANDLING AND STORAGE

**STORE AWAY FROM FOOD. DO NOT HEAT PRODUCT. THERMAL DECOMPOSITION WILL PRODUCE POISONOUS GAS.**

Avoid eye contact and prolonged or repeated skin contact. Wash thoroughly after handling and before eating, meals, breaks, smoking, drinking, or using lavatory.

### EXPOSURE CONTROLS/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** None required under normal working conditions.

**SKIN PROTECTION:** Chemical resistant rubber or plastic gloves should be worn.

**EYE PROTECTION:** Safety glasses or goggles as necessary to prevent irritation.

**ENGINEERING CONTROLS:** General ventilation.

**OTHER:** Emergency eye wash stations.

### PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th><strong>APPEARANCE:</strong></th>
<th>Beige, open cell foam</th>
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<tbody>
<tr>
<td><strong>ODOR:</strong></td>
<td>Very slight amine</td>
</tr>
<tr>
<td><strong>BOILING POINT:</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>VAPOR PRESSURE:</strong></td>
<td>0.001 mm Hg (@ 20 °C)</td>
</tr>
<tr>
<td><strong>VAPOR DENSITY:</strong></td>
<td>None Established</td>
</tr>
<tr>
<td><strong>SOLUBILITY IN WATER:</strong></td>
<td>Negligible</td>
</tr>
</tbody>
</table>
SPECIFIC GRAVITY: No Data

STABILITY AND REACTIVITY

STABILITY: Stable.

INCOMPATIBILITY: Incompatible with strong acids, alkalis and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce hydrogen cyanide, and oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

DISPOSAL CONSIDERATIONS

Incineration can produce poisonous gases. Do not incinerate without appropriate control measures. Recycle, reclaim and dispose of in accordance with applicable local, state and federal regulations. Dispose per 40 CFR Part 261 and 262.

TRANSPORT INFORMATION

DOT: Not classified

REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: This product is classified as an article under the criteria of this rule.

SARA HAZARD CLASSES: Not Classified

SARA TITLE III – SECTION 313 SUPPLIER NOTIFICATION:

This product constitutes an "article" and, as such is exempt from SARA 313 reporting requirements (40 CFR Part 372.38, Paragraph B).

OTHER INFORMATION

KEY:

ACGIH: American Conference of Governmental Industrial Hygienists

IARC: International Agency for Research on Cancer
NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

MSHA: Mine Safety and Health Administration

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

**DISCLAIMER**

The information in this MATERIAL SAFETY DATA SHEET should be provided to all who will use, handle, store, transport, or otherwise be exposed to this material. This information has been prepared for the guidance of plant engineering, operations and management, and for persons working with or handling this material. Cooper Industries/Crouse-Hinds Division believes this information to be reliable and up-to-date as of the date of publication, but makes no warranty that it is.

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