Material Safety Data Sheet

Material Name: Un-Du Adhesive Remover

*** Section 1 - Chemical Product and Company Identification ***

Distributor Information

Uline
2200 S. Lakeside Dr
Waukegan, IL 60085

*** Section 2 - Hazards Identification ***

Emergency Overview
Extremely Flammable. Harmful if swallowed or inhaled. Causes irritation.

Potential Health Effects: Eyes
May cause irritation.

Potential Health Effects: Skin
May cause irritation.

Potential Health Effects: Ingestion
Harmful if swallowed.

Potential Health Effects: Inhalation
May cause respiratory tract irritation.

HMIS Ratings: Health: 1 Fire: 3 HMIS Reactivity 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe  * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>142-82-5</td>
<td>Heptane (n-)</td>
<td>90-100</td>
</tr>
</tbody>
</table>

*** Section 4 - First Aid Measures ***

First Aid: Eyes
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

First Aid: Skin
In case of contact, immediately flush skin with plenty of water for at least 15 minutes

First Aid: Ingestion
Call a physician. If swallowed, do not induce vomiting.

First Aid: Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards
See Section 9 for Flammability Properties.
Vapors may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire.

Hazardous Combustion Products
Oxides of carbon

Extinguishing Media
Use alcohol foam, dry chemical or carbon dioxide. (Water may be ineffective.)

Fire Fighting Equipment/Instructions
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire exposed containers cool.

NFPA Ratings: Health: 1 Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
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Material Name: Un-Du Adhesive Remover

*** Section 6 - Accidental Release Measures ***

Containment Procedures
Wear suitable protective clothing. Shut off ignition sources; no flares, smoking or flames in area. Stop leak if you can do so without risk. Use water spray to reduce vapors.

Clean-Up Procedures
Take up with sand or other noncombustible absorbent material and place into container for later disposal. Flush area with water.

Evacuation Procedures
Isolate area. Keep unnecessary personnel away.

Special Procedures
None.

*** Section 7 - Handling and Storage ***

Handling Procedures
Avoid sources of ignition. Use good industrial hygiene when handling.

Storage Procedures
Bond and ground containers when transferring liquid. Keep container tightly closed. Store in a cool, dry, well-ventilated, flammable liquid storage area. Do not store above 110°F.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits
Heptane (n-) (142-82-5)

<table>
<thead>
<tr>
<th></th>
<th>ACGIH:</th>
<th>OSHA:</th>
<th>NIOSH:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane (n-)</td>
<td>400 ppm TWA</td>
<td>400 ppm TWA; 1600 mg/m3 TWA</td>
<td>85 ppm TWA; 350 mg/m3 TWA</td>
</tr>
<tr>
<td></td>
<td>500 ppm STEL</td>
<td>500 ppm STEL; 2000 mg/m3 STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls
Use General or local exhaust ventilation to meet TLV requirements

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/ Face
Safety glasses with sideshields.

Personal Protective Equipment: Skin
Neoprene gloves are recommended.

Personal Protective Equipment: Respiratory
Respiratory protection required if airborne concentration exceeds TLV. At concentrations up to 850 PPM, a chemical cartridge respirator with organic vapor cartridge is recommended. Above this level, a self-contained breathing apparatus is recommended.

Personal Protective Equipment: General
Eye wash fountain and emergency showers are recommended.

*** Section 9 - Physical & Chemical Properties ***

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Volatile Liquid</td>
<td>Odor:</td>
<td>Mold</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td>pH:</td>
<td>ND</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>NA</td>
<td>Vapor Density:</td>
<td>3.5</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>98°C (208°F)</td>
<td>Melting Point:</td>
<td>-91°C (-132°F)</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Negligible</td>
<td>Specific Gravity:</td>
<td>0.68</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>4.3</td>
<td>VOC:</td>
<td>ND</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>100</td>
<td>Octanol/H2O Coeff.:</td>
<td>ND</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-4°C (25°F)</td>
<td>Flash Point Method:</td>
<td>CC</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>6.7</td>
<td>Lower Flammability Limit</td>
<td>1.05</td>
</tr>
<tr>
<td>(UFL):</td>
<td></td>
<td>(LFL):</td>
<td></td>
</tr>
<tr>
<td>Burning Rate</td>
<td>ND</td>
<td>Auto Ignition:</td>
<td>ND</td>
</tr>
</tbody>
</table>
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*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability
This is a stable material.

Chemical Stability: Conditions to Avoid
Heat, flame, other sources of ignition.

Incompatibility
Strong oxidizing agents, Chlorine, Phosphorus, Chlorosulfonic Acid

Hazardous Decomposition
Carbon Monoxide, Carbon Dioxide

Possibility of Hazardous Reactions
Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects
A: General Product Information
No information available for the product.

B: Component Analysis - LD50/LC50
Heptane (n-) (142-82-5)
Inhalation LC50 Rat: 103 g/m3/4H; Oral LD50 Mouse:5000 mg/kg; Dermal LD50 Rabbit:3000 mg/kg

Carcinogenicity
A: General Product Information
No information available for the product.

B: Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity
A: General Product Information
No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity
Heptane (n-) (142-82-5)
Test & Species Conditions
96 Hr LC50 Cichlid fish 375.0 mg/L
24 Hr EC50 Daphnia magna >10 mg/L

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

Component Waste Numbers
No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions
All wastes must be handled in accordance with local, state and federal regulations.
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information
Shipping Name: Petroleum Distillates, n.o.s
UN/NA #: 1268 Hazard Class: 3 Packing Group: III

TDG Information
Shipping Name: Petroleum Distillates, n.o.s
UN/NA #: 1268 Hazard Class: 3 Packing Group: III
*** Section 15 - Regulatory Information ***

US Federal Regulations

Component Analysis
None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane (n-)</td>
<td>142-82-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Component Analysis - WHMIS IDL
The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Minimum Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane (n-)</td>
<td>142-82-5</td>
<td>1 %</td>
</tr>
</tbody>
</table>

Additional Regulatory Information

Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane (n-)</td>
<td>142-82-5</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
</tbody>
</table>

*** Section 16 - Other Information ***

Other Information
The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend
EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; 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; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.