SAFETY DATA SHEET (GHS)

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product / Chemical Name:**
BLUE BEAR® 540PM Polyurethane Adhesive Remover

**Other Means Of Identification:**
Commercial wood floor glue remover

**Recommended Use Of The Product / Chemical And Restrictions On Use:**
Removing glue adhesive used to glue commercial wood flooring to wood and concrete surfaces

**Manufacturer / Company Information:**
Franmar Chemical, Inc.
10282 E. 1400 North Rd.
Bloomington, IL 61705
1-800-538-5069 / 1-309-828-2900

**For Chemical Emergency - Spill, Leak, Fire, Exposure, or Accident Call:**
CHEMTREC Day or Night: Within USA and Canada: 1-800-424-9300
CCN717946 or +1 703-527-3887 (collect calls accepted)

Section 2: HAZARD IDENTIFICATION

**Classification Of Product / Chemical Mixture And Any National or Regional Information:**
Eye Irritation 2A, Skin Irritant 2A, Reproductive Toxicity 1B

**GHS Hazard Statements:**
(H315) Causes skin irritation.
(H319) Causes serious eye irritation.
(H335) May cause respiratory irritation or may cause drowsiness and dizziness.
(H360) May damage fertility or the unborn child if ingested.
(H302) May be harmful if swallowed.

**Other Hazards Which Do Not Result In Classification:**
Preexisting skin disorders generally aggravated by exposure.

**GHS Precautionary Statements:**
(P102) - Keep out of reach of children
(P103) - Read label before use
(P340+314) - If Inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a doctor/physician if you feel unwell.
(P362+P363+P337+P313) - If on skin: wash with plenty of soap and water. Take off contaminated clothing and wash contaminated clothing before reuse. If skin irritation occurs seek medical advice/attention.
(P351+P335) If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
(P330+P331+P312) - If Swallowed: Rinse mouth. Do not induce vomiting. Call a doctor if you feel unwell.
Section 3: COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-Methyl Pyrrolidone</td>
<td>872-50-4</td>
<td>40-45%</td>
</tr>
<tr>
<td>Dibasic Ester - LVP</td>
<td>627-93-0/1119-40-0</td>
<td>40-45%</td>
</tr>
<tr>
<td>Soy Ester</td>
<td>67784-80-9</td>
<td>15-20%</td>
</tr>
<tr>
<td>Proprietary Thickening And Surfactant Blend</td>
<td></td>
<td>1-5%</td>
</tr>
</tbody>
</table>

Other Chemical Information:
Specific data not available.

Section 4: FIRST AID MEASURES

Necessary Measures For Routes Of Exposure:

If Inhaled:
Remove to fresh air and keep at rest in a position comfortable for breathing. Call a doctor/physician if you feel unwell.

If on Skin:
Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs seek medical advice/attention.

If in Eyes:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

If Swallowed:
Call a doctor/physician if you feel unwell.

Important Symptoms/Effects, Acute and Delayed:
Specific data not available.

Immediate Medical Attention And Special Treatment Needed:
Specific data not available.
Section 5: FIRE FIGHTING MEASURES

Suitable (and unsuitable) Extinguishing Media:
Dry chemical, CO2, Water spray or Foam.

Hazards Arising From The Product/Chemical (e.g., nature of any hazardous combustion products):
None known.

Special Fire Fighting Procedures:
Use water spray to cool containers.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Butyl rubber gloves and eye protection. If using in poorly ventilated or confined spaces, use a NIOSH approved Organic Vapor respirator.

Environmental Precautions:
Specific data not available.

Methods and Materials for Containment and Cleaning Up:
Contain the spill and hold for disposal.

Section 7: HANDLING AND STORAGE

Precautions For Safe Handling:
Keep out of reach of children. Read label before use.

Conditions For Safe Storage, Including Any Incompatibilities:
Specific data not available.
**Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Control Parameters, e.g., Occupational Exposure Limit Values or Biological Limit Values:**
Specific data not available.

**Appropriate Engineering Controls:**
Not required. Mechanical generally sufficient.

**Individual Protective Measures, Such As Personal Protective Equipment:**
Neoprene or equivalent gloves, chemical goggles. Avoid eye and skin contact.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance (physical state, color, etc.)</td>
<td>Gold/Yellow color, heavy viscosity liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>8.1</td>
</tr>
<tr>
<td>Freezing / Melting Point</td>
<td>Below 32°F</td>
</tr>
<tr>
<td>Boiling Point and Boiling Range</td>
<td>Above 300°F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Above 200°F (PMcc)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Less than 1 (n-butyl acetate=1)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Emulsifiable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>1</td>
</tr>
<tr>
<td>Upper/Lower Flammability or Explosive Limits</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt; .5 mmHg @ 20°C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Relative Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>N/A</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>&gt; 500°F</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>VOC</td>
<td>49.5%, 578.96 g/L, 4.84 lbs/gal</td>
</tr>
</tbody>
</table>
Section 10: STABILITY AND REACTIVITY

**Chemical Stability:**
Stable

**Possibility Of Hazardous Reactions:**
Will not occur.

**Conditions To Avoid** *(e.g., static discharge, shock or vibration):*
Strong oxidizing agents.

**Incompatible Materials:**
Specific data not available.

**Hazardous Decomposition Products:**
Produces carbon monoxide and carbon dioxide on combustion.

Section 11: TOXICOLOGICAL INFORMATION

**Information On The Likely Routes Of Exposure** *(inhalation, ingestion, skin and eye contact):*
- **SKIN:** (H315) Causes skin irritation.
- **EYE:** (H319) Causes serious eye irritation.
- **INHALATION:** (H335) May cause respiratory irritation or may cause drowsiness and dizziness.
- **INGESTION:** (H302) May be harmful if swallowed.
  - (H360) May damage fertility or the unborn child if ingested.

**Symptoms Related To The Physical, Chemical and Toxicological Characteristics:**
This product contains a chemical (N-Methyl-2-Pyrrolidone) known to the state of California to cause birth defects or other reproductive harm.

Temporary blurred vision has been reported with inhalation, skin and eye contact.
Delayed and Immediate Effects and Also Chronic Effects From Short- and Long-Term Exposure:

Results from a number of long-term carcinogenity studies and short-term tests are available. Taking into account all of the information, there is no indication that the substance itself is carcinogenic.

Numerical Measures Of Toxicity (such as acute toxicity estimates):

- Oral: LD50/mouse: 5,270 mg/kg. Slightly toxic.
- Inhalation: LC50/rat: >5.1 mg/L / 4h. Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.
- Dermal: LD50/rabbit: 4,000 - 8,000 mg/kg. Moderately Toxic.
- Eye irritation: rabbit: Irritant. (Vendor-Test)
- Sensitization: Skin sensitizing effects were not observed in animal studies. Literature data.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available):

- Acute and prolonged toxicity to fish: golden orfe/LC50 (96 h): >500 mg/L
- Acute toxicity to aquatic invertebrates: Daphnia magna/EC50 (24 h): >1,000 mg/l
- Toxicity to aquatic plants: green algae/EC50 (72 h): >500 mg/L
- Toxicity to microorganisms: OECD Guideline 209 bacterium/EC20 (30 min): >600 mg/L

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Persistence and Degradability:

- Chemical oxygen demand (COD): 1,600 mg/L
- Biochemical oxygen demand (BOD): Incubation period 5 d: <2 mg/g
- Absorbable organically-bound halogen (AOX): This product contains no organically-bound halogen.

Bioaccumulative Potential:

- Biodegradation:
  - Test method: OECD 301 E/92/69/EEC, C.4-B
  - Method of analysis: DOC reduction
  - Degree of elimination: >90%
  - Evaluation: Readily biodegradable.

Mobility In Soil:

- Not Determined

Other Adverse Effects:

- Not Determined
Section 13: DISPOSAL CONSIDERATIONS

Description Of Waste Residues and Information On Their Safe Handling and Methods Of Disposal, Including The Disposal Of Any Contaminated Packaging:

Dispose of in accordance with all existing local, state, and federal ordinances.

Section 14: TRANSPORT INFORMATION

UN Number:
Non-Hazardous

UN Proper Shipping Name:
Not regulated

Transport Hazard Class(es):
Not classified as dangerous

Packing Group (if applicable):
Not classified as dangerous

Marine Pollutant (Yes/No):
Specific data not available.

Special Precautions Which User Needs To Be Aware Of / Or Comply With In Connection With Transport Or Conveyance Either Within Or Outside Their Premises:
Specific data not available.

Section 15: REGULATORY INFORMATION

SARA 302/304
This product contains no known chemicals regulated under SARA 302/304.

SARA 311/312
Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312:

SARA 313
This product contains the following chemicals subject to the reporting requirements of SARA Title III, Section 313 and 40 CFR 372: N-Methyl-Pyrrolidone (40%-45%) CAS# 872-50-4. This product may contain trace amounts of 1,4-Dioxane (<= .1%) CAS# 123-91-1

Section 16: OTHER INFORMATION

State Reporting
This product can expose you to chemicals including N-Methyl Pyrrolidone, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

872-50-4 N-Methyl Pyrrolidone (December 11, 2009)
This product contains the following chemicals regulated by New Jersey's Worker and Community Right to Know Act:

872-50-4 N-Methyl Pyrrolidone 50-0-0 Formaldehyde
This product contains the following chemicals regulated by Massachusetts' Right to Know Law:

872-50-4 N-Methyl Pyrrolidone 50-0-0 Formaldehyde
This product contains the following chemicals regulated by Pennsylvania's Right to Know Act:

872-50-4 N-Methyl Pyrrolidone 50-0-0 Formaldehyde