SECTION 1 – IDENTIFICATION

Trade Name: Debonder
Typical Use: Adhesive Remover
Supplier’s Name: Metalink Polymer and Adhesives
Address: P.O. Box 209, Buna, TX 77612

Product No.: ML525
Emergency Phone: 1-800-721-2448

SECTION 2 – HAZARD IDENTIFICATION

OSHA Hazards:
Flammable liquid. Carcinogen, Target organ effect: Irritant.
Target Organs: Liver, kidney, central nervous system.

GHS Classification:
- Flammable Liquid: Category 3
- Acute Toxicity: Category 4
- Skin Irritation: Category 3
- Eye Irritation: Category 2A
- Specific target organ toxicity-single exposure: Category 3

Pictograms:

<table>
<thead>
<tr>
<th>GHS02</th>
<th>GHS07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flame</td>
<td>Irritant</td>
</tr>
</tbody>
</table>

Signal Word: Danger

Hazard Statement(s)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor.</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H316</td>
<td>Causes mild skin irritation.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
</tbody>
</table>

Precautionary Statement(s)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P210</td>
<td>Keep away from heat, sparks, open flame or hot surfaces. NO SMOKING.</td>
</tr>
<tr>
<td>P261</td>
<td>Avoid breathing dust, fume, gas, mist, vapor and spray.</td>
</tr>
<tr>
<td>P305, P351, P338</td>
<td>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
</tbody>
</table>

HMIS Classification:
- Health Hazard: 2
- Flammability: 3
- Physical Hazard: 2

NFPA Rating:
- Health Hazard: 2
- Flammability: 3
- Reactivity: 2

Potential Health Effects:
- Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause dizziness and drowsiness.
- Skin: May be harmful if absorbed through the skin. Causes skin irritation.
- Eyes: Causes eye irritation.
- Ingestion: May be harmful if swallowed.
SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NO.</th>
<th>OSHA PEL</th>
<th>ACGIH TWA</th>
<th>ACGIH STEL</th>
<th>% COMPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitromethane</td>
<td>75-52-5</td>
<td>100 ppm</td>
<td>20 ppm</td>
<td>N.E.</td>
<td>60 - 75</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td>300 ppm</td>
<td>25 - 40</td>
</tr>
</tbody>
</table>

SECTION 4 – FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

Skin Contact: Flush skin with plenty of water while removing contaminated clothing and shoes. If irritation persists, get medical attention.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention immediately.

Ingestion: If swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Note to Physicians: Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g., gastric lavage after endotracheal intubation).

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media: Water fog, alcohol resistance foam, dry chemical or CO2.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus.

Fire/Explosion Hazards: Extremely flammable. Vapors are heavier than air.

Further Information: Use water spray to cool unopened containers.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Extremely flammable liquid. Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protection recommendations found in Section 8. Shut off source of leak if safe to do so. Use non-sparking tools and equipment. Contain spill, place into drums for proper disposal. Soak up residue with non-flammable absorbent material. Do not use sawdust. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. Use water spray to control vapor.
SECTION 7 – HANDLING AND STORAGE

Storage: Extremely flammable. Store in a cool, well-ventilated area away from all sources of ignition and out of direct sunlight. Keep containers tightly closed. Bond and ground transfer containers and equipment.

Handling: Avoid contact with eyes, skin and clothing. Do not pressurize, cut weld, brace, solder, drill, grind, or expose containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death, use explosion proof tools and equipment.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Value</th>
<th>Control Parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitromethane</td>
<td>75-52-5</td>
<td>TWA</td>
<td>20 ppm</td>
<td>USA / ACGIH TLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
<td>USA / OSHA 1910.1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
<td>USA / OSHA 1910.1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Limits for air contaminants, Z1)</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Upper respiratory tract irritation, thyroid effects, lung damage, confirmed animal carcinogen with unknown relevance to humans.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Value</th>
<th>Control Parameters</th>
<th>Basis</th>
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<tr>
<td>Nitromethane</td>
<td>75-52-5</td>
<td>TWA</td>
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</tr>
<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
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<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
<td>USA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(NIOSH recommended exposure limits)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STE</td>
<td>300 ppm</td>
<td>USA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(NIOSH recommended exposure limits)</td>
<td></td>
</tr>
</tbody>
</table>

Engineering controls: Engineering controls are imperative when using this product to avoid overexposure. Do not use in closed or confined spaces.

Respiratory protection: If exposure limits are exceeded, wear NIOSH respirator.

Eye/face protection: Wear safety glasses while handling this product.

Skin protection: Prevent contact. Wear chemical-resistant gloves.

Other protective equipment: Use adequate ventilation. Eye-wash station, safety shower.

General hygiene considerations: Wash with soap and water before meal times and at the end of each work shift.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling point: 133° F
Specific gravity: 0.800 @ 20° C
Freezing point: <-139° F
% Volatile: 100
Melting point: N.A.
Evaporation rate: \( \leq 0.1 \)
Vapor pressure: 180 @ 20° C
VOC (WT%): 0
Solubility in water: Negligible
VOC (lbs/gal): < 0°C
Flash point: 869°F

**Flammability/Explosion Limits:**
- **LEL:** 1.5% (V)
- **UEL:** 10.1% (V)

Auto ignition temperature: 869°F
V.O.C. Content: < 29 g/L estimated (California SCAQMD Method 316B)

### SECTION 10 – STABILITY AND REACTIVITY

**Stability:**
Stable

**Hazardous polymerization:**
Will not occur.

**Incompatibility:**
Acids, alkalies, oxidizers.

**Conditions to avoid:**
Avoid contact with heat, sparks, electric arcs and open flames. Reacts violently with phosphorous oxychloride. Vapors may form explosive mixture with air.

**Hazardous decomposition products:**
Carbon dioxide and carbon monoxide.

### SECTION 11 – TOXICOLOGICAL INFORMATION

**Nitromethane**

**Acute toxicity:**
- Oral LD50: Rat - 940 mg/kg
- Inhalation: No data available
- Dermal: No data available

Other information on acute toxicity: No data available
Skin corrosion/irritation: No data available
Serious eye damage/eye irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available

**Carcinogenicity:**
Carcinogenicity - rat - inhalation
Tumorigenic: Carcinogenic by RTECS criteria. Skin and appendages, tumors.
Carcinogenicity - mouse - inhalation
Tumorigenic: Carcinogenic by RTECS criteria. Sense organs and special senses (nose, eye, and taste)

This product is or contains a component that has been reported to be possibly carcinogenic based on IARC, ACGIH, NTP, or EPA classification.
**Methyl Ethyl Ketone**

**Acute toxicity:**
- Oral LD50: Rat - 2,737 mg/kg
- Inhalation: LC50: Mouse - 32,000 mg/m³
  - LC50: Mammal - 38,000 mg/m³
- Dermal LD50: Rabbit - 6,480 mg/kg
- Other information on acute toxicity: No data available
- Skin corrosion/irritation: Skin rabbit - 24 h
- Serious eye damage/eye irritation: No data available
- Respiratory or skin sensitization: No data available
- Germ cell mutagenicity: No data available

**Carcinogenicity:**
- **IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.
- **ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- **NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- **OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Development of cataracts has been reported in laboratory animals after prolonged or repeated exposure to acetone. In animal studies, repeated oral dosing of large amounts of acetone was reported to cause adverse effects in the hematological system, liver, kidney, and testis. In animals, acetone administration can potentiate the toxicity of a variety of chemical toxicants, which is believed to be secondary to induction of liver enzymes. In pregnant animals exposed to high concentrations of acetone, there were no birth defects, but some evidence of embryo fetal toxicity.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPS Classification.

- **IARC:** 2B - Group 2B: Possibly carcinogenic to humans (nitromethane)
- **NTP:** Reasonably anticipated to be a human carcinogen (nitromethane)
- **OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available.

**Teratogenicity:** No data available.

**Specific target organ toxicity - single exposure (Globally Harmonized System):** May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System):** No data available.

**Aspiration hazard:** No data available.

**Potential Health Effects:**
- **Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation. Vapors may cause drowsiness and dizziness.
- **Ingestion:** May be harmful if swallowed.
- **Skin:** May be harmful if absorbed through skin. Causes skin irritation.
- **Eyes:** Causes eye irritation.
Signs and symptoms of exposure:
Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

Additional information:
RTECS: PA9800000 Nitromethane
RTECS: EL6475000 Methyl Ethyl Ketone

SECTION 12 – ECOLOGICAL INFORMATION

Nitromethane:
Toxicity:
Toxicity to fish: LC50 - Danio Rerio (qebra fish) - 450 mg/l-48 h.
Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphina magna (water fleas) - 450 mg/1-24 h.
Toxicity to algae: IC50 - desmodesmus subspicatus (green algae) - 36 mg/l-72 h.

Methyl Ethyl Ketone:
Toxicity:
Toxicity to fish mortality NOEC - cyprinodont variegates (sheepshead minnow) - 400 mg/l-96 h.
LC50 - pimephales promelas (fathead minnow) - 3,130 - 3,320 mg/l-96 h.
Toxicity to daphnia and other aquatic invertebrates: LC50 - daphnia magna (water flea) 420 mg/1-48 h.
EC50 - daphnia magna (water flea) - > 520 mg/1-48 h.

The following information applies to acetone, nitromethane, and methyl ethyl ketone:
Persistence and degradability: No data available
Bio-accumulative potential: No data available
Mobility in soil: No data available
PBT and vPvB assessment: No data available
Other adverse effects: No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Method:
Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations.

SECTION 14 – TRANSPORTATION INFORMATION

DOT
UN Number: UN 1993
Proper shipping name: Flammable Liquid N.O.S. (Nitromethane/methyl ethyl ketone mixture)
Hazard Class: 3
Packing Group: II
Reportable Quantity: 5,000 lbs.
Marine Pollutant: No
Poison Inhalation Hazard: No

IATA
UN Number: UN 1993
Proper shipping name: Flammable Liquid N.O.S. (Nitromethane/methyl ethyl ketone mixture)
Hazard Class: 3
Packing Group: II
IMDG
UN Number: UN 1993
Proper shipping name: Flammable Liquid N.O.S. (Nitromethane/methyl ethyl ketone mixture)
Hazard Class: 3
Packing Group: II
EMR-NO: F-E, S-D
Marine Pollutant: No

SECTION 15 – REGULATORY INFORMATION

OSHA Hazard(s):
Flammable liquid, carcinogen, target organ effect, harmful by ingestion irritant.

SARA 302 Components:
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:
Fire hazard, acute health hazard and chronic health hazard.

Right-to-Know:
Massachusetts, Pennsylvania, New Jersey
Nitromethane CAS Number: 75-52-5 Revision Date: 1993-04-24
Methyl Ethyl Keytone CAS Number: 78-93-3 Revision Date: 2007-03-01

California Prop. 65 Components:
WARNING: This product contains a chemical (nitromethane) known to the State of California to cause cancer.
Nitromethane CAS Number: 75-52-5 Revision Date: 2007-09-28

SECTION 16 – OTHER INFORMATION

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the user. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state or local laws, rules, regulations or ordinances.

Date Prepared: 02/02/2016