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# MATERIAL SAFETY DATA SHEET

## REMOVE DEBONDER

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### 1. Chemical Product

**Product Name:** Remove Debonder  
**Product Type:** Nitromethane/Methyl Ethyl Ketone Mixture

### 2. Composition and Information on Harmful Ingredients

Ingredients	CAS No.	OSHA PEL	ACGIH TWA	ACGIH STEL	%Composition
Nitromethane	75-52-5	100ppm	20ppm	N.E.	>75
Methyl Ethyl Ketone	78-93-3	200ppm	200ppm	300ppm	<25

### 3. Hazards Identification

**Physical State:** Liquid.  
**Color:** Clear to amber.  
**Odor:** Ketone Odor.

**\*\*\*EMERGENCY OVERVIEW\*\*\*: DANGER! FLAMMABLE LIQUID. Keep away from heat, sparks, and open flame. Harmful if inhaled. Causes eye and skin irritation. Harmful if swallowed. Aspiration may cause lung damage.**

**Routes of exposure:** Eyes, ingestion, inhalation, skin.  
**Target organs:** Eyes, skin, respiratory system, central nervous system, liver, kidneys.  
**Medical conditions aggravated by exposure:** Eye, skin, respiratory system disorders, and nervous system disorders.  
**Other:** Drinking alcohol may worsen the effects resulting from exposure.  
**Cancer information:** This product does not contain greater than 0.1% of known or potential carcinogens listed in NTP, IARC, or OSHA.

### 4. First Aid Measures

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

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- 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:** There is no specific antidote. Treatment should be directed at controlling symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g., gastric lavage after endotracheal intubation).

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### 5. Fire Fighting Measures

- Flash Point:** 16°F
- Flammability Limits:** LEL: 1.4% UEL: 63%
- Autoignition temperature:** 759°F
- Extinguishing Media:** Water spray, CO<sub>2</sub>, or appropriate foam.
- Special Fire Fighting Procedures:** Wear self contained breathing apparatus.
- Fire / Explosion Hazards:** **FLAMMABLE LIQUID.** Vapors are heavier than air.
- Hazardous Thermal Decomposition Products:** Carbon dioxide, carbon monoxide, and nitrogen oxides.
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### 6. Accidental Release Measures

**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.

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### 7. Handling and Storage

- Storage:** **FLAMMABLE LIQUID.** 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, BRAZE, 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.**
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### 8. Exposure Control and Personal Protection

<p><b>Engineering controls:</b></p> <p><b>Respiratory protection:</b></p> <p><b>Eye/face protection:</b></p> <p><b>Skin protection:</b></p> <p><b>Other protective equipment:</b></p> <p><b>General hygiene considerations:</b></p>	<p>Engineering controls are imperative when using this product to avoid overexposure. Do not use in closed or confined spaces.</p> <p>If exposure limits are exceeded, wear NIOSH respirator.</p> <p>Wear chemical safety goggles while handling this product.</p> <p>Prevent contact. Wear chemical-resistant gloves.</p> <p>Eye-wash station, safety shower, rubber apron.</p> <p>Wash with soap and water before meal times and at the end of each work shift.</p>
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### 9. Physical and Chemical Properties

<p><b>Boiling point:</b> 175-213°F</p> <p><b>Freezing point:</b> N.A.</p> <p><b>Evaporation rate:</b> N.A.</p> <p><b>Solubility in water:</b> Slightly Soluble</p>	<p><b>Specific gravity:</b> 1.07-1.08@20°C</p> <p><b>Melting point:</b> N.A.</p> <p><b>Vapor pressure:</b> 71mmHg@20°C</p>
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### 10. Reactivity and Stability

<p><b>Stability:</b></p> <p><b>Hazardous Polymerization:</b></p> <p><b>Incompatibility:</b></p> <p><b>Conditions to Avoid:</b></p> <p><b>Hazardous Decomposition Products:</b></p>	<p>May decompose explosively at or above 315°C</p> <p>Will not occur under normal conditions.</p> <p>Acids, metal salts, metals, alkalis, oxidizers.</p> <p>Avoid contact with heat, sparks, electric arcs, and open flames.</p> <p>Carbon dioxide, carbon monoxide, and nitrogen oxides.</p>
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### 11. Toxicological Information

<p><b>Oral LD50:</b></p> <p><b>Dermal LD50:</b></p> <p><b>Inhalation LC50:</b></p>	<p>Rat – 0.94-5.6g/kg</p> <p>Rabbit – 5-13g/kg</p> <p>Rat – &gt;5000ppm/6H</p>
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### 12. Ecological Information

Extensive data, call for information.

### 13. Disposal Considerations

Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Contact a licensed professional waste disposal service to dispose of this material.





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### 14. Transportation Information (Not meant to be all inclusive)

#### DOT (Department of Transportation):

Shipping name:	Flammable Liquid, N.O.S. (Nitromethane/Methyl Ethyl Ketone Mixture)
Hazard class:	3
ID/UN number:	UN1993
Packing group:	II
Label required:	Flammable Liquid
Special Provisions:	PASSENGER AIRCRAFT/RAIL - FORBIDDEN
Reportable quantity (RQ):	5000Lbs. (Methyl Ethyl Ketone)

**NON-WARRANTY:** Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. Adhesive Systems shall not be liable for any injury, loss, or damage in the use of its chemical products since the conditions of use are beyond our control. In every case we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Because of changing reporting requirements and other variables it is impossible to guarantee the accuracy of the information contained in this document. It is the responsibility of the user to determine proper personal protection based on the actual condition of use and to comply with all Federal, State, and Local laws and regulations.

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