



MATERIAL SAFETY DATA SHEETS

REMOVE DEBONDER: M745-1001, S24-0402

1. GENERAL INFORMATION

PRODUCT NAME: REMOVE DEBONDER Date: 3/02  
CHEMICAL NAME: Nitromethane  
TRADE NAME: NM  
CHEMICAL FAMILY: Nitroparaffin

HMIS CODE: HEALTH 1 FLAMMABILITY 3 REACTIVITY 4

RPM, WFG.  
3194 Hickory Blvd.  
Hudson, NC 28638  
Phone: 828-728-8266

2. COMPOSITION:

INGREDIENT: NITROMETHANE CAS# 75-52-5 % 80

3. CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE: Clear liquid  
ODOR: Mild Characteristic Odor  
SPECIFIC GRAVITY: 1.124-1-129  
BOILING POINT: 101 °C  
SOLUBILITY IN WATER: 10.5% by weight@ 20 °C  
VAPOR DENSITY: 2.1  
VAPOR PRESSURE: 27.3 (mm Hg @ 20 °C)  
PERCENT VOLATILE: 100%  
EVAPORATION RATE: n-butyl acetate 100-139

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 96°F (method used C.O.C.)  
FLAMMABLE LIMITS: LEL=7.3% LEL=N/A  
EXTINGUISHING MEDIA: Carbon Dioxide, dry chemicals, water  
SPECIAL FIRE FIGHTING: Wet down tank & Containers to prevent rupture.  
PROCEDURES: Avoid breathing vapors.  
UNUSUAL FIRE and EXPLOSION HAZARDS: Sensitized by amines, alkalis, acids: can detonate by adiabatic compression. Dry alkali or amine salts are explosives.

## 5. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE EFFECTS OF (TLV and PEL) 100ppm  
OVEREXPOSURE: Liquid- Prolong exposure can lead to mild irritation due to defatting. Only slightly toxic by ingestion.  
Vapor- Headache, nausea, vomiting, narcosis. Chronic overexposure may cause liver and kidney damage.

First Aid Eye: Irritant. For eye contact flush with plenty of water for 15 minutes.

Skin: Wash exposed skin with soap and water. Launder clothing contaminated with NM before reuse.

Inhalation: Remove to fresh air. Call a physician, who may check for increased methemoglobin content.

Ingestion: Induce vomiting by giving victim 2 glasses of water and having him place a finger down the throat.

## 6. REACTIVITY DATA

STABILITY: Stable  
CONDITIONS TO AVOID: Shock under heavy confinement. Adiabatic compression.  
SENSITIZATION: DO NOT TRAP BETWEEN CLOSED VALVES OR USE POSITIVE DISPLACEMENT PUMPS TO DISCHARGE NITROMETHANE  
INCOMPATIBILITY: Lead, copper, their alloys- amines, strong alkalis, strong acids  
HAZARDOUS DECOMPOSITION: None  
HAZARDOUS POLYMERIZATION: Will not occur

## 7. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Evacuate area and remove potential sources of spark or flame. Properly protect personnel may then attempt to contain large spills and pump to salvage. Absorb unrecoverable spills with an inert solid such as sand or earth. Flush area with water.

DISPOSAL METHOD:

For purposes of disposal, Nitromethane is classified by EPA as a hazardous waste. Undiluted material is EPA Hazardous Waste Number D001 characteristic of Ignitability, This material must be disposed of at a permitted disposal facility, preferably by incineration. Check your local EPA regulations for proper disposal.

## 8. SPECIAL PROTECTION INFORMATION

RESPIRATORY: Air supplied respiration or self-contained breathing apparatus in area of high vapor concentration. DO NOT use canister type face mask because break through is easily detected.

VENTILATION: General ventilation with local exhaust in areas of high vapor concentrations

GLOVES: Rubber gloves  
EYE: Safety Glasses

PROTECTIVE CLOTHING: Rubber apron

9. SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Keep away from heat and flame. Keep container dosed. Store only in original containers

PROTECT FROM HIGH ENERGY IMPACTS.  
KEEP AWAY FROM CHILDREN

SHELF LIFE: Twelve months in original sealed container

10. DOT, TRANSPORTATION

Classification:	Flammable Liquid
Chemical:	Nitroemthane
UN Number:	UN 1261
Class:	3
Packaging group:	II
Reportable quantity:	100 lbs
Note:	Air Shipment FORBIDDEN!

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