

Issued: 10/2/03

MATERIAL SAFETY DATA SHEET

Emergency 24 hour phone number: Chem-Tel (800) 255-3942

CA PLUS Debonder/Cleaner/Flushing Solvent (Part # 01227, 01228 and 01229)

- 1) **General Information:** **Product Name:** Debonder
Chemical Name: Nitromethane
Trade Name: NM
Chemical Family: Nitroparaffin
HMIS Code: Health 1, Flammability 3, Reactivity 3
- 2) **Composition:**
- | <u>Ingredient:</u> | <u>CAS #</u> | <u>%</u> |
|--------------------|--------------|----------|
| Nitromethane | 75-52-5 | > 80% |
- 3) **Chemical/Physical Properties:**
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|----------------------------|-------------------------------|
| Appearance: | Clear Liquid |
| Odor: | Mild Characteristic Odor |
| Specific Gravity: | 1.124 – 1.229 |
| Boiling Point: | 213°F - 101°C |
| Solubility in water | 10.5 % by weight @ 68F – 20°C |
| Vapor Density: | 2.1 |
| Vapor Pressure | 27.3 (mm Hg @ 68°F – 20°C |
| Percent Volatile: | 100 % |
| Evaporation Rate: | n-butyl acetate 100-139 |
- 4) **Fire and Explosion Hazard Data:**
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|--|--|
| Flash Point: | 96F – 35°C (method used C.O.C.) |
| Flammable Limits: | LEL = 7.3% UEL = N/A |
| Extinguishing Media: | Carbon Dioxide, dry chemicals, water |
| Special Fire Fighting Procedures: | Wet down tank and Containers to prevent. 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 (TLV and PEL) | 100ppm |
| Effects of 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 protected 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 the 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 with 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 not 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. Protect from high energy impacts. Keep away from children.

Shelf Life: Twelve months in original sealed container.

10) DOT, Transportation information:

Classification: Flammable liquid **Chemical:** Nitromethane

UN Number: UN 1261 **Class:** 3

Packaging group: II **Reportable quantity:** 100 lbs.

Note: Cargo Aircraft Only