



Baker Petrolite

MUL TREAT Material Safety Data Sheet

Page 1 of 6

Section 1. Chemical Product and Company Identification

| | | | |
|---|--|--|-----------------|
| Product Name | MD2649 | Code | MD2649 |
| Supplier | Baker Petrolite A Baker Hughes Company 12645 W. Airport Blvd. (77478) P.O. Box 5050 Sugar Land, TX 77487-5050 For Product Information/MSDSs Call: 800-231-3606 (8:00 a.m. - 5:00 p.m. cst, Monday - Friday) 281-276-5400 | Version | 1.0 |
| Material Uses | Intermediate. | Effective Date | 4/1/2002 |
| 24 Hour Emergency Numbers | CHEMTREC 800-424-9300 (U.S. 24 hour) Baker Petrolite 800-231-3606 (North America 24 hour) CANUTEC 613-996-6666 (Canada 24 hours) CHEMTREC Int'l 01-703-527-3887 (Latin America 24 hour) | Print Date | 4/1/2002 |
| National Fire Protection Association (U.S.A.) | | <p>Health: 1, Reactivity: 0, Specific Hazard: 0, Flammability: (blank)</p> | |

Section 2. Composition and Information on Ingredients

| Name | CAS # | % by Weight | Exposure Limits |
|-----------------------------|-------|-------------|-----------------|
| No hazardous ingredient(s). | | | |

Section 3. Hazards Identification

| | |
|--|---|
| Physical State and Appearance | State: Liquid., Color: Dark Amber., Odor: Mild. Sweet. |
| CERCLA Reportable Quantity | Not applicable. |
| Hazard Summary | CAUTION. May be irritating to eyes, skin and respiratory tract. May cause central nervous system (CNS) effects if inhaled. |
| Routes of Exposure | Skin (Contact), Eyes, Inhalation. |
| Potential Acute Health Effects | <p><i>Eyes</i> May cause eye irritation.</p> <p><i>Skin</i> May be irritating to skin.</p> <p><i>Inhalation</i> May cause central nervous system (CNS) effects if inhaled. May be irritating to lungs.</p> <p><i>Ingestion</i> Not considered a likely route of exposure, however, may be harmful or cause irritation if swallowed.</p> |
| Medical Conditions aggravated by Exposure | Exposure to this product may aggravate medical conditions involving the following: respiratory tract, skin/epithelium, eyes. |
| See Toxicological Information (section 11) | |
| Additional Hazard Identification Remarks | Not available. |

Section 4. First Aid Measures

| | |
|------------------------------|---|
| Eye Contact | Flush eyes with plenty of water for 15 minutes, occasionally lifting upper and lower eyelids. Get medical attention if irritation occurs. |
| Skin Contact | Remove and launder or clean contaminated clothing and shoes. Wash with soap and water until no evidence of material remains. Get medical attention if irritation occurs. |
| Inhalation | Remove to fresh air. Oxygen may be administered if breathing is difficult. If not breathing, administer artificial respiration and seek medical attention. Get medical attention if symptoms appear. |
| Ingestion | If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never induce vomiting or give anything by mouth to a victim who is unconscious or having convulsions. Get medical attention if symptoms appear. |
| Notes to Physician | Not available. |
| Additional First Aid Remarks | Not available. |

Section 5. Fire Fighting Measures

| | |
|--|---|
| Flammability of the Product | Not regulated as flammable or combustible. |
| OSHA Flammability Class | IIIB |
| Autoignition temperature | Not available. |
| Flash Points | CLOSED CUP: Higher than 93.3°C (200°F). (TCC) |
| Flammable Limits | L.E.L. Not available. U.E.L. Not available. |
| Products of Combustion | These products are carbon oxides (CO, CO2). |
| Fire Hazards in Presence of Various Substances | Open Flames/Sparks/Static. Heat. |
| Fire Fighting Media and Instructions | In case of fire, use foam, dry chemicals, or CO2 fire extinguishers. Evacuate area and fight fire from a safe distance. Water spray may be used to keep fire-exposed containers cool. Keep water run off out of sewers and public water ways. |
| Protective Clothing (Fire) | Do not enter fire area without proper personal protective equipment, including NIOSH/MSHA approved self-contained breathing apparatus. |
| Special Remarks on Fire Hazards | Not available. |

Section 6. Accidental Release Measures

| | |
|--|--|
| Spill | Put on appropriate personal protective equipment. Keep personnel removed and upwind of spill. Shut off all ignition sources; no flares, smoking, or flames in hazard area. Approach release from upwind. Shut off leak if it can be done safely. Contain spilled material. Keep out of waterways. Dike large spills and use a non-sparking or explosion proof means to transfer material to an appropriate container for disposal. For small spills add absorbent (soil may be used in absence of other suitable materials scoop up material and place in a sealed, liquid-proof container. Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
| Other Statements | If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802. |
| Additional Accidental Release Measures Remarks | Not available. |

Section 7. Handling and Storage

| | |
|---|---|
| Handling and Storage | Put on appropriate personal protective equipment. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Protect from ignition. Store in a dry, cool and well ventilated area. Keep away from incompatibles. Keep container tightly closed and dry. |
| Additional Handling and Storage Remarks | Not available. |

Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Personal Protective Equipment recommendations are based on anticipated known manufacturing and use conditions. These conditions are expected to result in only incidental exposure. A thorough review of the job tasks and conditions by a safety professional is recommended, however, to determine the level of personal protective equipment appropriate for these job tasks and conditions.

Eyes Chemical safety goggles.

Body Wear long sleeves to prevent repeated or prolonged skin contact.

Respiratory Respirator use is not expected to be necessary under normal conditions of use. In poorly ventilated areas or in emergency situations, use NIOSH/MSHA approved full face respirator.

Hands Chemical resistant gloves.

Feet Chemical resistant boots or overshoes.

Other information Nitrile or neoprene gloves.

Protective Clothing
(Pictograms)



Additional Exposure Control Not available.
Remarks

Section 9. Typical Physical and Chemical Properties

| | | | |
|-------------------------------|---|-------|--------------|
| Physical State and Appearance | Liquid. | Odor | Mild. Sweet. |
| pH | 11 - 12 (5% of product in 75%IPA / 25% water mixture) | Color | Dark Amber. |
| Specific gravity | 1.071 - 1.083 @ 16°C (60°F) | | |
| Density | 8.92 - 9.02 lbs/gal @ 16°C (60°F) | | |
| Vapor Density | >1 (Air = 1) | | |
| Vapor Pressure | <1 mm of Hg @ 20°C (68°F) | | |
| Evaporation Rate | >1 (compared to Ether (anhydrous)). | | |
| VOC | Not available. | | |
| Viscosity | Not available. | | |
| Pour Point | Not available. | | |
| Solubility (Water) | Dispersible | | |
| Boiling Point | Not available. | | |
| Physical Chemical Comments | Not available. | | |

Section 10. Stability and Reactivity

| | |
|---|--|
| Stability and Reactivity | The product is stable. |
| Conditions of Instability | Not available. |
| Incompatibility with Various Substances | Oxidizing material. |
| Hazardous Decomposition Products | Not applicable. |
| Hazardous Polymerization | Hazardous polymerization is not expected to occur. |

MD2649

Page: 4/6

Special Stability & Reactivity Not available.

Remarks

Section 11. Toxicological InformationComponent Toxicological Information

Acute Animal Toxicity

Not available.

Chronic Toxicity Data

Product Toxicological Information

Acute Animal Toxicity

Not available.

Target Organs

respiratory tract, skin/epithelium, eyes.

Other Adverse Effects

This product results from a reaction involving ethylene oxide (EtO) (CAS No 75-21-8). It may, therefore contain residual EtO (less than 0.1%) which can accumulate in the container headspace and be released to the ambient environment when opened. This release of EtO would tend to increase when the product is agitated during unloading or blending operations.

The Occupational Safety and Health Administration (OSHA) has set the worker exposure level for EtO at 1 ppm (8-hour time weighted average). The STEL is 5 ppm (15 minutes). This standard regulates occupational exposure to EtO from sources including products containing residual EtO. It is the responsibility of the employer to comply with OSHA EtO Standard (29 CFR 1910.1047). The OSHA action level TWA for EtO is 0.5 ppm. The OSHA excursion level is 5 ppm as averaged over a sampling period of 15 minutes.

The International Agency for Research on Cancer (IARC) has identified EtO as a "human carcinogen (Group 1); human evidence is limited; animal evidence is sufficient". EtO has been listed as an "anticipated carcinogen" by the National Toxicology Program (NTP). EtO has also been designated as a carcinogen and reproductive toxin under the State of California's Safe Drinking Water and Toxic Enforcement Act (Proposition 65). A no significant risk level of 2 mcg/day (an acceptable intake level is 20 mcg/day) was established under Proposition 65.

Section 12. Ecological Information

Ecotoxicity

Not available.

BOD5 and COD

Not available.

Biodegradable/OECD

Not available.

Toxicity of the Products of Biodegradation

Not available.

Special Remarks

An EcoTox™ Report, and/or the material's environmental fate is available upon request at the following number:
1-800-235-4249, then press 4.

Section 13. Disposal Considerations

Responsibility for proper waste disposal rests with the generator of the waste. Dispose of any waste material in accordance with all applicable federal, state and local regulations. Note that these regulations may also apply to empty containers, liners and rinsate. Processing, use, dilution or contamination of this product may cause its physical and chemical properties to change.

Additional Waste Remarks

Not available.

Section 14. Transport Information

| | | |
|--------------------------------------|-----------------------|--|
| DOT Classification | Not regulated by DOT. | |
| DOT Reportable Quantity | Not applicable. | |
| Marine Pollutant | Not applicable. | |
| Additional DOT information | Not available. | |
| Emergency Response Guide Page Number | Not applicable. | |

Section 15. Regulatory Information

| | |
|-----------------------------------|--|
| HCS Classification | Irritant. |
| U.S. Federal Regulations | |
| Environmental Regulations | Extremely Hazardous Substances: Not applicable to any components in this product. SARA 313 Toxic Chemical Notification and Release Reporting: Not applicable to any components in this product. SARA 302/304 Emergency Planning and Notification substances: Not applicable to any components in this product. Hazardous Substances (CERCLA 302): Not applicable to any components in this product. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: immediate health hazard; Clean Water Act (CWA) 307 Priority Pollutants: Not applicable to any components in this product. Clean Water Act (CWA) 311 Hazardous Substances: Not applicable to any components in this product. Clean Air Act (CAA) 112(r) Accidental Release Prevention Substances: Not applicable to any components in this product. |
| Threshold Planning Quantity (TPQ) | Not applicable. |
| TSCA Inventory Status | All components are included or are exempted from listing on the US Toxic Substances Control Act Inventory. This product does not contain any components that are subject to the reporting requirements of TSCA Section 12(b) if exported from the United States. |
| State Regulations | State specific information is available upon request from Baker Petrolite. |
| International Regulations | |
| Canada | All components are compliant with or are exempted from listing on the Canadian Domestic Substance List. |
| WHMIS (Canada) | D-2B |
| European Union | All components are included or are exempted from listing on the European Inventory of Existing Commercial Chemical Substances or the European List of Notified Chemical Substances. international inventory status information is available upon request from Baker Petrolite for the following countries: Australia, and Australia (NICNAS), China, Korea (TCCL), Philippines (RA6969), or Japan. |
| Harmonized Tariff Code | Not available. |
| Other Regulatory Information | No further regulatory information is available. |

Section 16. Other Information

| | |
|-----------------------------------|----------------|
| Other Special Considerations | Not available. |
| <u>Baker Petrolite Disclaimer</u> | |

NOTE: The information on this MSDS is based on data which is considered to be accurate. Baker Petrolite, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This MSDS was prepared and is to be used for this product. If the product is used as a component in another product, this MSDS information may not be applicable.