



Material Safety Data Sheet

Mirachem[®] 500 Foaming Aerosol Cleaner/Degreaser

(Formulation No. 2502)

Section I - General

Manufacturer Name: The Mirachem Corporation
P.O. Box 14059
Phoenix, Arizona 85063-4059

Date Prepared: 11/9/95
Revision Date: 04/11/03

Emergency Phone: 1-(800) 847-3527

Section II - Hazardous Ingredients/Identity Information

<u>Hazardous Component (CAS #)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits</u>	<u>% (Optional)</u>
Propane (CAS #74-98-6)				1.5
Isobutane (CAS #75-28-5)				1.5

Section III - Hazards Identification

Emergency Overview: Non-flammable, water based aerosol cleaner with a flammable propellant. Do not puncture, incinerate or store above 120°F. Keep out of reach of children.

Potential Health Effects: This product mixture has not been tested on animals or on humans. The following acute and chronic health effects are based on the main hazards of the products components and non-animal *Invitro* toxicity testing of the final product.

Eye Contact: May cause mild temporary irritation.

Skin Contact: Prolonged or repeated exposure not likely to cause significant irritation.

Inhalation: No adverse effects expected.

Ingestion: No adverse health effects are anticipated to occur as a result of acute ingestion. Chronic effects are not known.

Carcinogenicity: None of the components in this material are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

Signs/Symptoms of Overexposure: Prolonged contact may cause mild irritation or dryness to sensitive skin.

Medical Conditions Generally Aggravated by Exposure: None known.

Section IV - First Aid Measures

Eyes: Immediately flush with clean water. Consult physician if necessary.

Skin: Rinse with water.

Ingestion: If swallowed, treat symptomatically and supportively. Do not induce vomiting. If victim conscious and alert, give two glasses of water or milk to drink. If vomiting occurs, keep head below hips to prevent aspiration. Contact Physician.

Inhalation: No adverse effects anticipated.

Section V - Fire and Explosion Hazard

Flash Point (Method Used):	>212°F (TCC)	Explosive Limits:	N.E.
Special Fire Fighting Procedures:	NONE	Unusual Fire Fighting and Explosion Hazards:	NONE

Section VI - Accidental Release

Steps to be taken in the event the material is released or spilled: Eliminate all ignition sources. Absorb spilled liquid with Oil-Dri or similar inert material. Sweep or scrap up and containerize. Rinse affected area thoroughly with water.

Section VII - Handling & Storage

Handling & Storage Wear protective goggles or face shield if splashing or spraying liquid. Protect from freezing.
Precautions:
Other Precautions: Do not puncture, incinerate or store above 120°F. Keep out of reach of children.

Section VIII - Exposure Controls, Personal Protection

Respiratory Protection: No respiratory protection should be necessary.
Ventilation: Good general ventilation should be sufficient.
Protective Clothing: When prolonged skin contact is expected, wear protective gloves.
Eye Protection: Wear safety glasses.
Work/Hygienic Practices: Use good personal hygiene practices, wash hands before eating, drinking, smoking, or using toilet facilities.

Section IX - Physical/Chemical Characteristics

Boiling Point:	>210°F (liquid phase)	Specific Gravity (H ₂ O = 1):	0.997
Vapor Pressure (mm Hg.) @ 20°C	Composite = 1.256	pH:	8.7-9.5
Vapor Density (AIR =1):	> 1	Evaporation Rate (Butyl Acetate = 1):	> 1 (liquid phase)
Solubility in Water:	Complete	Melting Point:	N/A
Appearance and Odor:	Clear liquid with a mild citrus odor		
N/A = Not Applicable	N.E. = Not Established		

Section X - Stability & Reactivity

Stability:	Unstable	Incompatibility (Materials to Avoid):	None
	Stable X	Hazardous Decomposition or By-products:	N/A
Hazardous Polymerization:	May Occur	Will Not Occur	X

Section XI - Toxicological Information (Liquid Phase)

Acute Oral:	LD ₅₀ > 13.0 g/kg
Acute Dermal:	LD ₅₀ > 5.0 g/kg
Primary Eye Irritation	No evidence of corrosion. All corneal involvement or irritation cleared within 72 hours.
Primary Skin Irritation	Primary Irritation Index (PII) = 2.6 based on erythema and edema . No corrosion was found.

Section XII - Ecological Information (Liquid Phase)

Aerobic Aquatic Biodegradation (EPA Method 796.3100)	The percentage biodegradation in 28 days was 85.8%.
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Section XIII - Disposal Considerations

Waste Disposal: Do not puncture or incinerate. Use-up contents of package or give to someone who can. If
(Unused Material) possible, recycle empty aerosol can at nearest recycling center.

Section XIV - Transportation Information

D.O.T Shipping Name:	ORMD	D.O.T Hazard Class:	None
UN Shipping Name:	N/A	UN/NA Number:	N/A
UN Class or Division	N/A	UN Packing Group:	None
NMFC Freight Class	Compound, Cleaning Fluid, NOI 48580 Sub 3		
Warehousing (Factory Mutual):	Level 1		

Section XV - US Regulatory Information

Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warrantee, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, and local laws. The following specific information is made for the purpose of complying with numerous federal, state, and local laws and regulations.

Federal Regulations:

Workplace Classification	This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200)
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SARA Title III

Section 311/312	This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.
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Section 313	This product does not contain a chemical, which is listed in Section 313 at or <u>above de minimis</u> concentrations.
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CERCLA Information (40CFR 302.4)	Releases of this product to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.
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Waste Classification	When a decision is made to discard unused portions of this product, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and none of the materials used in this product are listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).
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Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, State and local waste disposal requirements may be more restrictive or otherwise different from Federal laws and regulations.

TSCA	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act.
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NFPA Ratings	Health = 1	Flammability = 1	Reactivity = 0	Special = 0
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NPCA-HMIS Ratings	Health = 1	Flammability = 1	Reactivity = 0	Protective Equipment = None
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State Regulations:

California

California Safe Drinking Water and Toxic Enforcement - Prop. 65	This product does not contain any materials currently listed by California as chemicals known to cause cancer or known to have reproductive toxicity under Proposition 65.
Volatile Organic Compounds (VOC)	Percent Volatile Organic Compounds by weight equals 3.0%.
SQAQMD	This product has a VOC content of 161 g/l or 1.34 lbs./gal. and is not considered photochemically reactive as defined in Rule 102 of the rules and regulations of the South Coast Air Quality Management District (SQAQMD).
