



# Safety Data Sheet

Formula No: 2500A  
 Revision Date: 2015/05/01  
 Superseded Date: 2016/01/06

## Mirachem 500 Foaming Aerosol Cleaner / Degreaser

### 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

Product name: Mirachem 500 Foaming Aerosol Cleaner / Degreaser  
 Identified uses: Ready-to-use industrial cleaner. Use only for the purposes indicated on the label.

Company: Mirachem, LLC  
 P.O. Box 14059  
 Phoenix, Arizona 85063-4059  
 USA

Email address: SDS@mirachem.com  
 Customer service: USA (English) Telephone: 1 (800) 847-3527

Emergency phone number(s): USA (English) Telephone: 1 (800) 847-3527  
 Chemtrec (US) Telephone: 1 (800) 424-9300

### 2. HAZARD(S) IDENTIFICATION

**GHS Classification** PHYSICAL HAZARD (AEROSOL) – Category 2  
 ACUTE AQUATIC HAZARD – Category 3

#### GHS Label Elements

Pictogram



Signal word  
Hazard statements

Warning  
 Flammable Aerosol (H223)  
 Pressurized Container: may burst if heated (H229)  
 Harmful to aquatic life (H402)

#### Precautionary Statements

Prevention: Keep away from heat/sparks /open flames/hot surfaces. No smoking. (P210) Do not spray on an open flame or other ignition source. (P211)  
 Do not pierce or burn, even after use. (P251)  
 Avoid release to the environment (P273)

Response: None required.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. (P410 + P412)

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations (P501). See SECTION 13 – DISPOSAL CONSIDERATIONS, for additional waste disposal information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical characterization:** Mixture (water based)

<u>Ingredient:</u>	<u>CAS Number</u>	<u>Percent</u>
Nonionic Surfactants*	Proprietary	< 5
Propane	74-98-6	1.5
Isobutane	75-28-5	1.5

\* Composition of this ingredient is a trade secret.

#### 4. FIRST AID MEASURES

Protection of First-Aiders:	First aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION, for specific personal protective equipment.
Inhalation:	No adverse effects are anticipated. Remove to fresh air. If breathing is difficult, get medical assistance.
Eye contact:	May cause mild temporary irritation. If eye irritation develops, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation persists.
Ingestion:	No adverse health effects are anticipated. If swallowed, treat symptomatically and supportively. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If adverse health effects develop, persist or are severe, seek medical attention if you feel unwell. Never give anything by mouth to an unconscious person.
Skin contact:	No adverse effects expected. Prolonged or repeated exposure may cause mild irritation or drying of skin. If on skin, wash with plenty of water. If irritation develops or persists, get medical attention.
Symptoms and effects, both acute and delayed:	Aside from the information provided above and below, no additional symptoms and effects are anticipated.
Notes to physician:	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate pre-existing dermatitis.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Do not use direct water stream. May spread fire.
Unusual fire and explosion hazards:	In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products:	Decomposition products may include the following materials; carbon dioxide, carbon monoxide, nitrogen oxides.
Special precautions for fire fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving personal risk or without suitable training. Move containers from the area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION. Refer to SECTION 7 - HANDLING AND STORAGE, for additional precautionary measures.
Environmental precautions:	Prevent from entering into soil, ditches, storm sewers, waterways and/or ground water. See SECTION 12 - ECOLOGICAL INFORMATION for additional information.
Methods for cleaning up:	Contain spilled material; keep from entering soil, surface waters or sewers.  <i>Small Spills:</i> Clean up with absorbent and collect absorbent for disposal in accordance with Federal, State or local disposal requirements.  <i>Large Spills:</i> Dike or otherwise contain spilled material to insure runoff does not reach a waterway. Collect and drum off material for disposal in accordance with Federal, State or local disposal requirements. Notify local, state or federal authorities if required. Rinse with water. See SECTION 13 - DISPOSAL CONSIDERATIONS and SECTION 15 - REGULATORY REQUIREMENTS for additional information.

## 7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with eyes. Do not breathe vapor or mist. Liquid and vapor under pressure. Do not puncture or incinerate container. Use adequate ventilation. Wash thoroughly after handling. See Section 8, EXPOSURE CONTROLS / PERSONAL PROTECTION.
Conditions for safe storage, including incompatibilities:	Keep away from heat/sparks /open flames/hot surfaces. No smoking. Protect from freezing. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store between 40°F (4°C) and 110°F (43°C). Keep container tightly closed. Keep out of reach of children.  The shelf life for unopened containers stored under above conditions is 60 months from the date on the package.
Recommended packaging materials:	Not applicable.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	None established.
Engineering controls:	Keep away from heat/sparks /open flames/hot surfaces. No smoking. No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Eye/Face protection:	No protection is necessary. Wear safety glasses with side protection if splashing is likely or where conditions may cause eye exposure.
Skin protection:	Under intended handling conditions, no protective clothing should be needed. Use protective clothing as required for the situation.
Hand protection:	Under intended handling conditions, no protective gloves should be needed. Use protective gloves as required for the situation.
Respiratory protection:	Under intended handling conditions, no respiratory protection should be needed.
Personal hygiene:	Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

## 9. PHYSICAL AND CHEMICAL PROPERTIES (Liquid Phase)

<b>Appearance:</b>	Clear pourable liquid, water-white to light yellow	<b>Vapor pressure @ 20°C</b>	0.0018 mm Hg
<b>Odor:</b>	Mild citrus	<b>Vapor density (air = 1)</b>	> 1
<b>Odor threshold:</b>	Not available	<b>Relative density:</b>	Not established
<b>pH:</b>	8.5 – 10.0	<b>Solubility in water:</b>	Complete
<b>Melting point:</b>	Not applicable to liquids	<b>Partition coefficient:</b>	Not established
<b>Freezing point:</b>	32°F (0 °C)	<b>Auto-ignition temperature:</b>	Not established
<b>Initial boiling point:</b>	212°F (100°C)	<b>Decomposition temperature:</b>	Not established
<b>Flash point:</b>	Not established	<b>Viscosity @ 20°C:</b>	Not applicable
<b>Evaporation rate:</b>	Not established	<b>Liquid density @ 20°C:</b>	0.997 g/cm <sup>3</sup>
<b>Flammability:</b>	Not classified		
<b>Flammable limits in air:</b>			
<b>Upper explosive limit:</b>	Not established		
<b>Lower explosive limit:</b>	Not established		
<b>Aerosol product type:</b>	Spray foam	<b>VOC content:</b>	110 g/l (0.92 lb./gal)

\* Absolute (calculated)

## 10. STABILITY AND REACTIVITY

<b>Chemical stability &amp; reactivity:</b>	The product is stable
<b>Possibility of hazardous reactions:</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid:</b>	Temperatures in excess of 110°F (43°C).
<b>Incompatible materials:</b>	Avoid contact with strong acids, strong bases or strong oxidizers.
<b>Hazardous decomposition products:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce CO <sub>2</sub>

## 11. TOXICOLOGICAL INFORMATION (Liquid Phase)

The GHS health hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Toxicity Estimates for this mixture (ATE<sub>mix</sub>) are representative of these calculations. The information below is based on the concentrate. It does not include the propellant.

### Acute Toxicity:

<b>Oral:</b>	Not classified.	LD <sub>50</sub> Rat, Male and Female: > 13,000 mg/kg
<b>Dermal:</b>	Not classified.	LD <sub>50</sub> Rabbits, Male and Female: > 5,000 mg/kg
<b>Inhalation:</b>	No relevant data available.	
<b>Other routes:</b>	Not applicable	

<b>Skin corrosion/irritation:</b>	Does not meet the requirements for classification. Non-irritating.
<b>Serious eye damage/irritation:</b>	Does not meet the requirements for classification. Non-irritating.
<b>Skin sensitization:</b>	No component of this mixture is known to be a skin sensitizer.
<b>Respiratory sensitizer:</b>	No relevant data available.

### Chronic Toxicity:

<b>Mutagenicity:</b>	No component of this mixture is known to be a mutagen or genotoxin.
<b>Carcinogenicity:</b>	No component of this mixture is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

<b>Teratogenicity:</b>	No component in this mixture is known to be a teratogen.
<b>Developmental/Fertility effects:</b>	No known significant effects or critical hazards.

<b>Specific Target Organ Toxicity (STOT)</b>	<b>Single dose:</b>	No relevant data available.
	<b>Repeated exposure:</b>	No relevant data available.

<b>Aspiration hazard:</b>	No relevant data available.
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## 12. ECOLOGICAL INFORMATION (Liquid Phase)

The GHS health hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Toxicity Estimates for this mixture ( $ATE_{mix}$ ) are representative of these calculations. The information below is based on the fluid. It does not include the propellant.

### Aquatic Toxicity:

Acute Aquatic Toxicity	Fish	Category 3	$LC_{50}$	> 10 but < 100 mg/l
	Crustacea	Category 3	$EC_{50} ATE_{mix}$	> 10 but < 100 mg/l
	Algae	Category 3	$ErC_{50} ATE_{mix}$	> 10 but < 100 mg/l
Chronic Aquatic Toxicity	Not classified.		Similar formulation produced $LC_{50}$	> 100 mg/l
Persistence and degradability:	Readily biodegradable (> 70% at 28 days)			
Bioaccumulative potential:	No relevant data available.			
Mobility in soil:	No relevant data available.			

## 13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Attempt to use product completely in accordance with intended use. Empty containers may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Do not puncture or incinerated container. Dispose of empty container in trash.

## 14. TRANSPORT INFORMATION

UN Number:	N/A	Transportation Hazard Class:	N/A
UN Proper Shipping Name:	N/A	Packing Group:	None
ADR (EU Carriage):	Not regulated	RID (Rail)	Not regulated
AND/ADNR (Inland water):	Not regulated	ICAO/IATA (Air)	Not regulated
IMO/IMDG (Marine):	Not regulated		
DOT Shipping Name:	Non-regulated	DOT Classification:	N/A
NMFC Freight Class:	Compound, Cleaning Fluid, NOI 48580 Sub 3		
HS Tariff Classification (Schedule B)	3402.90.5030		
Special Precautions:	No known special precautions.		

## 15. REGULATORY INFORMATION

### US Federal Regulations

#### SARA Title III

Section 302: Extremely Hazardous Substance

This product does not contain chemicals at levels which require reporting under this status.

Section 302.4 & 304: CERCLA: Hazardous Substances

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.

Sections 311 & 312:

Immediate (acute) Health Hazard	No
Delayed (chronic) Health Hazard	No
Fire Hazard	Yes
Reactive Hazard	No
Sudden Release of Pressure	Yes

Section 313:

This product does not contain chemicals at levels which require reporting under this status.

#### TSCA

All chemical substances in this material are included on or exempted from listing on the TSCA inventory of Chemical Substances.

### US State Regulations

#### California

California Safe Drinking Water and Toxic Enforcement Act (Proposition 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 11.0%.

### International 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 warranty, 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 their Federal, State/Province, and local laws. The following specific information is made for the purpose of complying with numerous specific foreign regulations.

#### Country Substance (Chemical) Inventories

Canada	DSL	The individual components of this mixture are listed.
United States	TSCA	All chemical substances in this material are included on or exempted from listing on the TSCA inventory of Chemical Substances.

### Other International Regulations:

Canada Non-controlled under WHMIS.

**16. OTHER INFORMATION**

**HMIS Rating:**

Health	0
Physical Hazards	0
Protective Equipment	None

**NFPA Rating:**

Health	0
Reactivity	0
Special	0

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Mirachem shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current status of scientific and technical knowledge.