



Safety Data Sheet

Formula No: 2500.20
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Superseded Date: New

Mirachem 500 Cleaner / Degreaser (Use Dilution)

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

Product name: Mirachem 500 Cleaner / Degreaser (Use Dilution)
Identified uses: 20% dilution of a concentrated 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 ACUTE AQUATIC HAZARD – Category 3

GHS Label Elements

Pictogram None required.
Signal word None required.
Hazard statements Harmful to aquatic life. (H402)

Precautionary Statements

Prevention: Avoid release to the environment (P273)
Response: None required
Storage: None required
Disposal: Dispose of in accordance with local, state and federal regulations. (P501) See SECTION 13 – DISPOSAL CONSIDERATIONS, for additional waste disposal information

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixture (water based)

Ingredient:	CAS Number	Percent
Proprietary surfactant blend	Trade Secret	< 2

* 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.
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.
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. Keep container closed. Promptly clean up spills. See SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION for additional information.
Conditions for safe storage, including incompatibilities:	Keep containers tightly closed. Protect from freezing; may rupture or degrade product. Keep out of reach of children.
Recommended packaging materials:	Use original container or clean plastic (polyethylene) containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	None established (under ACGIH or OSHA.)
Engineering controls:	No special requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Eye/Face protection:	Wear safety glasses with side shields or chemical goggles 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. Where diluted product is heated to > 120°F, wear thermal protective gloves, sleeves and apron.
Hand protection:	Under intended handling conditions, no protective gloves are required. Use protective gloves as required for the situation. Nitrile, vinyl or latex gloves of 4 mil thickness or greater are recommended. Where diluted product is heated to > 120°F, wear thermal protective gloves.
Respiratory protection:	Under intended handling conditions, no respiratory protection is 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

Appearance:	Clear pourable liquid, water-white to light yellow	Vapor pressure @ 20°C	0.003 mm Hg*
Odor:	Mild citrus	@ 37°C	Not established
Odor threshold:	Not available	Vapor density (air = 1)	> 1
pH:	8.5 - 9.5	Relative density:	Not established
Melting point:	Not applicable to liquids	Solubility in water:	Complete
Freezing point:	32°F (0 °C)	Partition coefficient:	Not established
Initial boiling point:	212°F (100°C)	Auto-ignition temperature:	Not established
Flash point:	Not established	Decomposition temperature:	Not established
Evaporation rate:	>1 (Butyl Acetate = 1)	Viscosity @ 20°C:	< 100 cSt
Flammability:	Not classified	Liquid density @ 20°C:	1.0 g/cm ³
Flammable limits in air:		VOC**	16 g/l (0.13 lb./gal)
Upper explosive limit:	Not established		
Lower explosive limit:	Not established		

* Absolute (calculated)

** The VOC in this product has a vapor pressure of less than 0.1 mm Hg. Under many jurisdictions, this is classified as a low vapor pressure VOC. This material is **not** listed as a "Hazardous Air Pollutant (HAP)" under the Clean Air Act (CAA) list of volatile or organic hazardous air pollutants.

10. STABILITY AND REACTIVITY

Chemical stability & reactivity:	The product is stable
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	Avoid contact with strong acids, strong bases or strong oxidizers.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce CO ₂

11. TOXICOLOGICAL INFORMATION

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

Acute Toxicity:

Oral:	Not classified	LD ₅₀ ATE _{mix}	>2500
Dermal:	Not classified	LD ₅₀ ATE _{mix}	>2500
Inhalation:	No relevant data available.		
Other routes:	Not applicable		

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

Chronic Toxicity:

Mutagenicity	No component of this mixture is known to be a mutagen or genotoxin.
Carcinogenicity:	No component of this mixture is listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
Teratogenicity:	No component in this mixture is known to be a teratogen.
Developmental / Fertility Effects:	No known significant effects or critical hazards.

Specific Target Organ Toxicity (STOT)	Single dose:	No relevant data available.
	Repeat exposure:	No relevant data available.
Aspiration hazard:	No relevant data available.	

12. ECOLOGICAL INFORMATION

The GHS Environmental hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Aquatic Toxicity Estimates for this mixture (ATE_{mix}) are representative of these calculations.

Toxicity:

Acute Aquatic Toxicity	Fish	Category 3	LC ₅₀ ATE _{mix}	> 10 but < 100
	Crustacea	Category 3	EC ₅₀ ATE _{mix}	> 10 but < 100
	Algae	Category 3	ErC ₅₀ ATE _{mix}	> 10 but < 100
Chronic Aquatic Toxicity	No relevant data available.			
Persistence and degradability:	The individual components of this mixture are readily biodegradable.			
Bioaccumulative potential:	Relevant data not available.			
Mobility in soil:	Relevant data not available.			

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Empty containers may retain some product residues. Rinse container before disposal. 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. Avoid dispersal of spilled material and runoff with soil and waterways.

RCRA Classification: Unused disposed material is **not** a RCRA Hazardous Waste.

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.

14. TRANSPORT INFORMATION

UN Number:	N/A	Transportation Hazard Class:	N/A
UN Proper Shipping Name:	N/A	UN 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 (Scheduler 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 statute.

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	No
Reactive Hazard	No
Sudden Release of Pressure	No

Section 313

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

TSCA

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

US State Regulations

Arizona

Maricopa County Rule 331

This product is considered a Low-VOC cleaner.

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.

BAAQMD

This product meets the requirements of the Bay Area Air Quality Management District Regulation 8, Rule 16. The VOC content is 16 grams/liter (0.13 pounds/gallon) with a composite partial pressure at 20°C of less than 1mm Hg.

SCAQMD

This product meets the requirements of South Coast Air Quality Management District (SCAQMD) Rule 1171 for Solvent Cleaning. The VOC content is 16 grams/Liter (0.13 pounds/gallon) with a composite partial pressure at 20°C of less than 1 mm Hg.

Georgia

Rule 391-3-02

At use dilution, this product is greater than 80% water which qualifies this as an "Aqueous Cleaning Solvent". As an "Aqueous Cleaning Solvent" this product is exempt from Rule 391-3-02.

Michigan

Rule R 336.1281 & R 336.1212

The absolute (composite) vapor pressure of this product in either concentrated or diluted form is less than 0.1 mm Hg under standard conditions. Part (e) under R 336.1281 exempts this product from the requirement for a "Permit to Install". The vapor pressure for this product exempts it from the recordkeeping requirements of R 366.1212 as indicated in Part (3)(b) and clarified by MDEQ interoffice communication of July 5, 2011.

Pennsylvania

Hazardous Substances List

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

Texas

Texas Rule 106.454 – Degreasing Units

Under this rule, this product is classified as a zero VOC product. The true vapor pressure is calculated to be < 0.6 pounds per square inch, absolute (psia) at an operating temperature of 100°F. This product meets the requirements of section (2)(C) for a remote reservoir cleaner and as such Section (1)(A) (i) and (ii) do not apply. Completion of Form PI-7 and monthly record keeping is not required.

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 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 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.
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16. OTHER INFORMATION

HMIS Rating:

Health	0
Flammability	0
Physical Hazards	0
Protective Equipment	None

NFPA Rating:

Health	0
Flammability	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.