



Safety Data Sheet

Formula No: 2300

Revision Date: 31-DEC-2023

Mirachem Silicone Antifoam

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

Product name: Mirachem Silicone Antifoam
Identified uses: Foam control agent.
Use restrictions: Use at dilution only for the purpose 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 +1 602 415 9262

Emergency phone number(s): USA (English, Business Hours) Telephone: +1 602 415 9262
Chemtrec (US, 24 hours) Telephone: +1 800 424 9300

2. HAZARD(S) IDENTIFICATION

GHS Classification EYE DAMAGE / EYE IRRITATION – Category 2B

GHS Label Elements

Pictogram: None
Signal Word: Warning
Hazard Statements: Causes eye irritation. (H320)

Precautionary Statements

Prevention: Wash hands thoroughly after handling. (P264).
Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338). If eye irritation persists: Get medical attention. (P337+P313)
Storage: None required.
Disposal: See SECTION 13 – DISPOSAL CONSIDERATIONS, for additional waste disposal information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture (water based)

Ingredient:	CAS Number	Percent
Polydimethylsiloxane*	Proprietary	< 10

* Composition of these ingredients and their concentration is withheld as a trade secret in accordance with 29 CFR 1910.1200.

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:	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:	Not classified as an environmental hazard. See SECTION 12 – ECOLOGICAL INFORMATION for additional information.

Methods for Cleaning up: *Small Spills:* Clean up with absorbent and collect absorbent for disposal in accordance with Federal, State or local disposal requirements.

Large Spills: Dike or otherwise contain spilled material. Collect and drum off material for disposal in accordance with Federal, State or local disposal requirements. 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. Wash hands thoroughly after handling. 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. Store between 40°F (4°C) and 110°F (43°C). Keep out of reach of children.

The shelf life for unopened containers stored under the above conditions is 36 months from the date on the package.

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 ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Provide eye wash station.

Eye/Face Protection: Wear safety glasses with side shields and/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.

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.

Respiratory Protection: Under intended handling conditions, no respiratory protection is needed.

Ingestion (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:	Off white viscous liquid	Vapor pressure @ 20°C	Not established
Odor:	Faint	Vapor density (air = 1)	Not established
Odor threshold:	Not available	Relative density:	Not established
pH:	6.0 - 8.0	Solubility in water:	Dispersible
Melting point:	Not applicable to liquids	Partition Coefficient:	Not established
Freezing point:	32°F (0 °C)	Auto-ignition temperature:	Not established
Initial boiling point:	> 212°F (100°C)	Decomposition temperature:	300°F
Flash point:	Not established	Viscosity, centipoise @ 20°C:	<125
Evaporation rate:	< 1	Liquid density @ 20°C:	1.00 g/cm ³
Flammability:	Not classified	VOC	0.0 g/l (0.0 lbs./gal.)
Flammable Limits in air:			
Upper explosive limit:	Not established		
Lower explosive limit:	Not established		

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:	Do not freeze.
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.

Likely routes of exposure: Inhalation _____ Skin contact X Eye contact X Ingestion _____

Acute Toxicity:

Oral:	Not Classified
Dermal:	Not Classified
Inhalation:	Not Classified
Other routes:	Not Applicable
Skin corrosion/irritation:	Not Classified
Serious eye damage/irritation:	May cause eye irritation
Skin sensitization:	Not Classified
Respiratory sensitizer:	Not Classified

Chronic Toxicity:

Mutagenicity:	No component in 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:	Not Classified
	Repeat exposure:	Not Classified
Aspiration hazard:	Not Classified	

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.

Aquatic Toxicity:

Acute Aquatic Toxicity	Fish	Not Classified
	Crustacea	Not Classified
	Algae	Not Classified
Chronic Aquatic Toxicity	No relevant data available.	
Persistence and degradability:	No relevant data available.	
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. 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 Hazard Classification:	N/A
HS Schedule B Number:	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 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	Yes
	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

California

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This product and its component materials have been evaluated for compliance with Proposition 65. No disclosures are required under this regulation. This formulation does not contain materials known to cause cancer or known to have reproductive toxicity in concentrations at or above detectable *de minimis* limits.

International Country Substance Chemical Inventory Information

Canada

DSL

The individual components of this mixture are listed.

16. OTHER INFORMATION

HMIS Rating:

Health	1
Flammability	0
Physical Hazards	0

Protective Equipment

NFPA Rating:

Health	1
Flammability	0
Reactivity	0

Special

IMPORTANT NOTICE: The information provided in this Safety Data Sheet (SDS) is presented in good faith, is based on the current state of scientific and technical knowledge, and is believed to be accurate as of the revision date shown herein. It is intended to meet the obligations of applicable worker or environmental safety regulations in effect at the time of publication. However, laws and regulations are subject to change, and differ from one location to another; it is the User's responsibility to ensure that its activities comply with applicable national, regional, and local laws.

In addition to its own technical knowledge and experience, Mirachem relies on information provided by suppliers and other third-party resources in preparing this document. Information presented may summarize, calculate, correlate, aggregate, or generalize this information using methods and practices that are reasonable, customary, and technically appropriate within the specialty chemical industry. This SDS is not intended to be, nor should it be used as, a comprehensive analytical analysis of the indicated formulation.

The information provided herein is applicable to the indicated Mirachem product in original, packaged, unadulterated condition. The technical, health, or safety information reported in this document may no longer apply to product that has been used, diluted, processed, or otherwise exposed to environmental or use conditions.

This SDS establishes no warranty, express or implied. Information regarding warranties or guarantees applicable to Mirachem products is available at [Mirachem.com/Guarantee](https://www.mirachem.com/Guarantee).