

# **Safety Data Sheet**

Version 1

Odor Fruity

### Issue Date: 12-Dec-2023 Revision Date: 12-Dec-2023 **1. IDENTIFICATION** Product identifier **Product Name Graphene Surface Protectant** Other means of identification SDS # MOTH-006 **Product Code** MP-01 Recommended use of the chemical and restrictions on use **Recommended Use** Surface Protectant/Repellant - Commercial Vehicle Wash Details of the supplier of the safety data sheet Supplier Address Mothers Automated Solutions PO Box 28661 Scottsdale, AZ 85255 1-480-630-0366 www.mothersautomatedsolutions.com Emergency telephone number **Emergency Telephone** INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America) 2. HAZARDS IDENTIFICATION Appearance Pink liquid Physical state Liquid **Classification** Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1

<u>Signal Word</u> Danger

### Hazard statements

Causes skin irritation Causes serious eye damage



<u>Precautionary Statements - Prevention</u> Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a poison center or doctor/physician IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%
Proprietary Detergent	Proprietary	25-35
Proprietary Silicone Solution	Proprietary	1-5
Proprietary Non-Hazardous Ingredient	Proprietary	1-5
Glycol Ether EB	111-76-2	<1
Proprietary biocide	Proprietary	<0.1
Proprietary Fragrance	Proprietary	<0.1

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### **4. FIRST AID MEASURES**

#### **Description of first aid measures**

General Advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).	
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.	
Skin Contact	IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.	
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.	
Ingestion	If swallowed, get medical attention if symptoms occur. Rinse mouth. Do NOT induce vomiting.	
Self-Protection of the First Aider No action shall be taken involving any personal risk or without suitable training. it may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.		
Most important symptoms and effects, both acute and delayed		
Symptoms	Causes serious eye damage. Causes skin irritation.	
Indication of any immediate medical attention and special treatment needed		
Notes to Physician	Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. Treat symptomatically and supportively.	
5. FIRE-FIGHTING MEASURES		

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media None known.

### Specific Hazards Arising from the Chemical

None known.

Hazardous combustion products Smoke, fumes or vapors, and oxides of carbon.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For Emergency Responders	Follow all fire fighting procedures in Section 5. Use personal protection recommended in Section 8.
Environmental precautions	
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for additional Ecological Information.

#### Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Keep in suitable, closed containers for disposal. For waste disposal, see section 13 of the SDS.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Keep in the original container or an approved alternative made from compatible material, kept tightly closed when not in use.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in accordance with local regulations.
Incompatible Materials	Incompatible with strong acids and bases. Incompatible with oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary Detergent	STEL: 50 ppm vapor fraction STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction	-	Ceiling: 25 ppm Ceiling: 125 mg/m <sup>3</sup>
Proprietary Silicone Solution	STEL: 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m <sup>3</sup> (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 250 ppm STEL: 325 mg/m <sup>3</sup>
Proprietary Non-Hazardous Ingredient	-	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	-
Glycol Ether EB 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Proprietary Fragrance	dermal sensitizer TWA: 20 ppm	-	-

### Appropriate engineering controls

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles). Refer to 29 CFR 1910.133 for eye and face protection regulations.
Skin and Body Protection	Suitable protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.
Respiratory Protection	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Appearance Color Liquid Pink liquid Pink

Odor Odor Threshold Fruity Not determined

<u>Property</u> pH	<u>Values</u> 6-8
Melting point / freezing point	No data available
Initial boiling point and boiling	No data available
range	
Flash point	No data available
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Not determined
Flammability Limit in Air	
Upper flammability or explosive	No data available
limits	
Lower flammability or explosive	No data available
limits	
Vapor Pressure	Not determined
Vapor Density	No data available
Relative Density	0.99-1.03
Water Solubility	Not determined
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Autoignition temperature	No data available
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

### Remarks • Method

### **10. STABILITY AND REACTIVITY**

### Reactivity

Not reactive under normal conditions.

#### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Incompatible Materials.

#### Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

### Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Product Information

Causes serious eye damage.
Causes skin irritation.
Avoid inhalation.
Avoid ingestion.

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary Detergent	= 3700 mg/kg (Rat)	= 12300 mg/kg (Rabbit)	> 310 mg/m³(Rat)1 h
Proprietary Silicone Solution	= 6200 mg/kg (Rat)	= 15840 mg/kg (Rabbit)	= 22500 ppm (Rat)8 h
Proprietary Non-Hazardous Ingredient	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat)4 h
1,2 Propanediol 57-55-6	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	-
Glycol Ether EB 111-76-2	= 470 mg/kg (Rat)	= 435 mg/kg (Rabbit)	= 450 ppm (Rat)4 h = 486 ppm (Rat)4 h
Proprietary biocide	= 1020 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Sodium dioctyl sulfosuccinate 577-11-7	= 3080 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-
Proprietary Fragrance	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

#### Symptoms related to the physical, chemical and toxicological characteristics

Symp	otoms
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Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity	
Oral LD50	>2,000 mg/kg
Dermal LD50	>2,000 mg/kg
ATEmix (inhalation-dust/mist)	>5 mg/l

### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Proprietary Detergent		LC50: 10500 - 11000mg/L (96h,	EC50: 2700 - 3700mg/L (48h,
		Pimephales promelas)	Daphnia magna)
		LC50: =10000mg/L (96h, Lepomis	
		macrochirus)	
		LC50: =8690mg/L (96h, Pimephales	
		promelas)	
		LC50: =10700mg/L (96h,	
		Pimephales promelas)	
Proprietary Silicone Solution		LC50: =28200mg/L (96h,	
		Pimephales promelas)	
		LC50: >100mg/L (96h, Pimephales	
		promelas)	
		LC50: 19500 - 20700mg/L (96h,	
		Oncorhynchus mykiss)	
		LC50: 18 - 20mL/L (96h,	
		Oncorhynchus mykiss)	
		LC50: 13500 - 17600mg/L (96h,	
Description New Hermonia		Lepomis macrochirus)	
Proprietary Non-Hazardous		LC50: 51 - 57mL/L (96h,	
Ingredient		Oncorhynchus mykiss)	

1,2 Propanediol	EC50: =19000mg/L (96h,	LC50: =51600mg/L (96h,	EC50: >1000mg/L (48h, Daphnia
57-55-6 Pseudokirchneriella subcapitata)		Oncorhynchus mykiss)	magna)
		LC50: 41 - 47mL/L (96h,	
		Oncorhynchus mykiss)	
		LC50: =51400mg/L (96h,	
		Pimephales promelas)	
		LC50: =710mg/L (96h, Pimephales	
		promelas)	
Glycol Ether EB		LC50: =1490mg/L (96h, Lepomis	EC50: >1000mg/L (48h, Daphnia
111-76-2		macrochirus)	magna)
		LC50: =2950mg/L (96h, Lepomis	<b>-</b> ,
		macrochirus)	
Sodium dioctyl sulfosuccinate		LC50: 20 - 40mg/L (96h,	EC50: =36mg/L (48h, Daphnia
577-11-7		Oncorhynchus mykiss)	magna)
		LC50: <24mg/L (96h, Oncorhynchus	<b>-</b> ,
		mykiss)	
		LC50: =37mg/L (96h, Lepomis	
		macrochirus)	

### Persistence/Degradability

Not determined.

### **Bioaccumulation**

There is no data for this product.

### Mobility

MODILLY	
Chemical name	Partition coefficient
Proprietary Detergent	0.14
Proprietary Silicone Solution	-0.77
Proprietary Non-Hazardous Ingredient	-1.75
Glycol Ether EB 111-76-2	0.81
Proprietary biocide	0.99

### Other adverse effects

Not determined

### 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

# US EPA Waste Number

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Proprietary Silicone Solution		Included in waste stream:		U154
		F039		

### California Hazardous Waste Status

Chemical name	California Hazardous Waste Status	
Proprietary Silicone Solution	Toxic	
	Ignitable	

### 14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

### **15. REGULATORY INFORMATION**

### International Inventories

All ingredients are listed or exempt from listing on Chemical Substance Inventory

### US Federal Regulations

### **CERCLA**

Not determined

## SARA 313

Not determined

### CWA (Clean Water Act)

Not determined

### US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Proprietary Silicone Solution -	Developmental

### U.S. State Right-to-Know Regulations

Not determined

### **16. OTHER INFORMATION**

<u>NFPA</u>	Health hazards	Flammability	Instability	Special hazards
<u>HMIS</u>	Health hazards	Flammability -	Physical hazards	Personal Protection Not determined
Issue Date: Revision Date: Revision Note:	12-Dec-2023 12-Dec-2023 New format			

**Disclaimer** 

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End of Safety Data Sheet