SECTION 1: Identification of the Substance / Mixture and of the Company / Undertaking

1.1. Product Identifier

Product name	:	GSLAF3376
Other means of identification	:	Defoamer
Recommended use	:	Antifoam
Restrictions on use	:	Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

1.2. Details of the Distributor of the Safety Data Sheet

Company Name	:	GreenSol Limited
Address	:	#39-41 Marryat Street, San Fernando, Trinidad, West Indies
Telephone	:	+1(868) 225-4858
Mobile	:	+1(868) 720-2517
Email	:	sdeokiesingh@greensolltd.com

1.3. Emergency Telephone Number

Emergency Number	:	+1(868) 720-2517 (GREENSOL)
	:	+1(800) 424-9300 (CHEMTREC)

SECTION 2: Hazard Identification

GHS Classification

Flammable liquids	:	Category 3
Carcinogenicity	:	Category
Specific target organ toxicity - single exposure	:	Category 3 (Central Nervous System)

GHS Label element

Hazard Pictograms :

GSH06 GHS08 GHS02 GHS07

Signal Word	:	**WARNING**
Hazard Statement	:	Flammable liquid and vapour. May cause drowsiness or dizziness. Suspected of causing cancer
Precautionary Statement	:	**Prevention**: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/

protective clothing/ eye protection/ face protection.
Response:
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
Storage:
Store in a well-ventilated place. Keep Cool
Disposal: Store in a well-ventilated place. Keep Cool.

Other Hazards : None known

SECTION 3: Composition / Information on Ingredients

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
Kerosene	8008-20-6	80-82
Silicone Oil	63148-62-9	18 – 20

Any concentration shown as a range is to protect confidentiality or due to batch variation.
There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational Exposure Limites, if available, are listed in Section 8.

SECTION 4: First Aid Measures

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and plenty of water. Get medical attention if symptoms occur

In case of eye contact : Rinse with plenty of water. Get medical attention if symptoms occur

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

Notes to physician : Treat symptomatically

Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms

SECTION 5: Firefighting measures

Suitable Extinguishing Media : Foam
Carbon dioxide
Dry powder
Other extinguishing agent suitable for Class B fires

		For large fires, use water spray or fog, thoroughly drenching the burning material.
Unsuitable Extinguishing Media	:	High volume water jet.
Specific hazards during firefighting	:	Fire Hazard Keep away from heat and sources of ignition. Flash back possible over considerable distance. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides metal oxides
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For non-emergency Personnel	:	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment
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).

Methods and Material for Containment and Cleaning up

Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop if water-soluble. Alternatively, or if water insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses,

basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: Handling & Storage

Advice on safe handling	:	Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only with adequate ventilation.
Conditions for safe storage	:	Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
Suitable material	:	The following compatibility data is suggested based on similar product data and/or industry experience: Mild steel, Stainless Steel 304, Stainless Steel 316L, Hastelloy C-276, PVC, Plexiglass, PTFE, Perfluoroelastome
Unsuitable Material	:	The following compatibility data is suggested based on similar product data and/or industry experience: Aluminum, Brass, Copper, Buna-N, Nylon, Natural rubber, Polyethylene, Polypropylene, HDPE (high density polyethylene), Ethylene propylene, EPDM, Neoprene, Polyurethane, Alfax, Hypalon, Fluoroelastomer, Shipping and long term storage compatibility with construction materials can vary; we therefore recommend that compatibility is tested prior to use.

SECTION 8: Exposure Controls / Personal Protection

Components with workplace control parameters

Components	CAS No.	Form of exposure	Permissible concentration	Basis
Kerosene	8008-20-6	TWA TWA	100 mg/m3 500 ppm 2,000 mg/m3	NIOSH REL OSHA Z1

	TWA	200 mg/m3 (as total hydrocarbon vapor)	ACGIH

Engineering measures	:	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
Personal protective equipment		
Hand protection	:	Wear impervious chemical-resistant gloves when handling this product. The following glove types are recommended based on our review of glove manufacturer information and/or other available sources. Viton® gloves Nitrile rubber Other glove types may be used for short term, incidental contact if determined by testing to provide adequate worker protection. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	:	Safety goggles Face-shield
Skin protection	:	Wear suitable protective clothing.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program

SECTION 9: Physical and Chemical Properties

Appearance	:	Liquid
Colour	:	Colourless to yellow
Odour	:	Characteristics
Flash Point	:	>38 °C
pH	:	Not applicable
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	5 V%, Based on solvent
Lower explosion limit	:	0.7 V%, Based on solvent

Vapour pressure	:	< 100 Pa, Based on solvent
Relative vapour density	:	No data available
Specific Gravity	:	0.8000 - 0.8400, (25 °C),
Water solubility	:	Insoluble
Solubility in other solvents	:	No data available
Partition coefficient n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Viscosity, kinematic	:	70-90 cSt
Molecular weight	:	No data available
VOC	:	No data available

SECTION 10: Stability and Reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of Hazardous Reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	:	Heat, flame and sparks
Incompatible Materials	:	Strong oxidizing agents
Hazardous Decomposition Products	:	Decomposition products may include the following materials: Carbon Oxides metal Oxides

SECTION 11: Toxicological Information

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact.
Potential Health Effects		
Eyes	:	Health injuries are not known or expected under normal use
Skin	:	Health injuries are not known or expected under normal use
Ingestion	:	Health injuries are not known or expected under normal use
Inhalation	:	Inhalation may cause central nervous system effects
Chronic Exposure	:	Suspected of causing cancer.
Experience with human exposure		
Eye contact	:	No symptoms known or expected
Skin contact	:	No symptoms known or expected
Ingestion	:	No symptoms known or expected
Inhalation	:	Dizziness, Drowsiness
Toxicity		
Product		
Acute oral toxicity Acute	:	Acute toxicity estimate: 4,876 mg/kg
Inhalation toxicity Acute	:	No data available
Dermal toxicity skin	:	No data available

Corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
Respiratory or skin	:	No data available

Sensitization Carcinogenicity

IARC **Group 2B: Possibly carcinogenic to humans**

Kerosene	8006-20-6

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP **Reasonably anticipated to be a human carcinogen**

Kerosene	8006-20-6

Reproductive effects	:	no data available
Germ cell mutagenicity	:	no data available
Teratogenicity	:	no data available
STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available
Aspiration toxicity	:	no data available

SECTION 12: Ecological Information

Toxicity

Environmental Effects : Harmful to aquatic life with long lasting effects.

Product

Toxicity to daphnia and other aquatic invertebrates : LC50 Ceriodaphnia dubia: 4,063 mg/l
Exposure time: 48 hrs.
Test substance: Product

NOEC Ceriodaphnia dubia: 2,500 mg/l
Exposure time: 48 hrs.
Test substance: Product

Persistence and degradability : no data available

Mobility : The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;
Air: <5%

Water: 10 - 30%
Soil: 70 - 90%
The portion in water is expected to float on the surface.

Bioaccumulative potential : no data available
Other information : no data available

SECTION 13: Disposal Considerations

The information presented only applies to the material as supplied. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated at the time of disposal to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal Considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transportation Information

	DOT Classification	TDG Classification	IMDG	IATA
14.1. UN Number				
	UN1223	UN1223	UN1223	UN1223
14.2. UN Proper Shipping Name				
	KEROSENE	KEROSENE	KEROSENE	KEROSENE
14.3. Transport Hazard Class (es)				
				
14.4. Packing Group				
	II	II	II	II
14.5. Environment Hazards				
	No.	No.	No.	No.

Additional information

DOT Classification	:	This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.
TDG Classification	:	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).
IATA	:	The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO instruments	:	Not available.
DOT Reportable Quantity	:	Not applicable.
Marine pollutant	:	Not available.
North-America NAERG	:	128

SECTION 15: Regulatory Information

TSCA List : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	Cas No.	Component RQ (lbs)	Calculated product RQ (lbs)
Kerosene	8006-20-6	100	4444

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Carcinogenicity
Specific target organ toxicity (single or repeated exposure)

SARA 302 : This material does not contain any components with a section 302 EHS TPQ

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Components	CAS-No.
Kerosene	8006-20-6

California Prop. 65

⚠ **WARNING:** Cancer - www.P65Warnings.ca.gov

Kerosene	8006-20-6

INTERNATIONAL CHEMICAL CONTROL LAWS:

United States TSCA Inventory

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710).

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)

All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS).

Canadian Domestic Substances List (DSL)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Japan. ENCS - Existing and New Chemical Substances Inventory

All substances in this product comply with the Law Regulating the Manufacture and Importation of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

Korea. Korean Existing Chemicals Inventory (KECI)

All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL).

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

China Inventory of Existing Chemical Substances

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

Taiwan Chemical Substance Inventory

On the inventory, or in compliance with the inventory

SECTION 16: Other Information

NFPA:

0 = not significant
1 = Slight
2 = Moderate
3 = High
4 = Extreme

Notice to Reader:

This SDS provides the information contained in this document in good faith but makes no representation as to its accuracy. This document is intended solely to guide the safe handling of the material by a properly trained individual. The final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with caution. Although some hazards are described, it cannot be guaranteed that these are the only hazards that exist.

Version	Date of Change	Change Description	Responsible Person
2	14-11-2024	Updated to supplier SDS Rev. 2	Laboratory Coordinator