

SILICON DEFOAMER

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

SILICON DEFOAMER
Organo-Silicone based Antifoam Emulsion
CAS: Proprietary blend (main active: Organo silicone, CAS 117272-76-1)

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Antifoaming/defoaming agent for industrial process liquids, effluent treatment, textile, paint and water treatment applications. For industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Supplier's details:

SURAJ CHEMICALS
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281
Email: sales@surajchemicals.com | Website: www.surajchemicals.com
GST No: 33ACEPV8190L1ZZ

1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:
Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Acute Tox. (Skin)	May be harmful in contact with skin, H313
Acute Tox. (Inhalation)	May be harmful if inhaled, H333
Eye Irrit. 2B	Causes eye irritation, H320

2.2 GHS label elements, including precautionary statements:

GHS: Warning

Hazard statements:

H313: May be harmful in contact with skin.
H333: May be harmful if inhaled.
H320: Causes eye irritation.

Precautionary statements:

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/eye protection.
P301+P312: IF SWALLOWED: Call a Poison Center or doctor if you feel unwell.
P302+P352: IF ON SKIN (or hair): Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405: Store locked up.
P501: Dispose of contents/container according to local, state and federal regulations.

2.3 Other hazards which do not result in classification:

None identified.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Organo-silicone based defoamer emulsion (proprietary blend)
In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 117272-76-1	Organo silicone – Acute Tox. (skin/inhalation), Eye Irrit. 2B: H313, H333, H320	Proprietary (concentrated finished product)

Exact composition is a manufacturing trade secret. To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

This product is a mixture (proprietary organo-silicone emulsion); see 3.1.

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Request medical assistance if symptoms develop, showing the SDS of this product.

By inhalation:

Remove from exposure and move to fresh air immediately.

By skin contact:

Wash skin with soap and water.

By eye contact:

Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

By ingestion/aspiration:

Do not induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately.

4.2 Most important symptoms/effects, acute and delayed:

Eye contact: may cause slight eye irritation. Skin contact: may cause skin irritation. Ingestion: harmful if swallowed – may cause headache, nausea and vomiting. Inhalation: not expected to be a problem under normal use.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Treat symptomatically and supportively.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Suitable: CO2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable: None known.

5.2 Specific hazards arising from the chemical:

Aqueous emulsion, non-flammable. No unusual fire or explosion hazards known.

5.3 Special protective actions for fire-fighters:

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

Additional provisions:

None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Use proper personal protective equipment as indicated in Section 8.

For emergency responders:

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up:

Absorb the liquid and scrub the area with detergent and water. Spilled liquid may be slippery – use care to avoid falls.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A. General precautions for safe use:

Wash hands thoroughly after handling. Avoid contact with eyes.

B. Technical recommendations for the prevention of fires and explosions:

Not applicable – product is non-flammable.

C. Technical recommendations on general occupational hygiene:

Do not eat, drink or smoke while using this product.

D. Technical recommendations to prevent environmental risks:

Avoid environmental contamination and release.

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

Storage condition	Cool, dry, well-ventilated area away from direct sunlight
Incompatible materials	Strong oxidizers

B. General conditions for storage:

Store in a cool, dry, well-ventilated area away from incompatible substances and direct sunlight.

7.3 Specific end use(s):

Except for the instructions already specified, it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Identification	Occupational Exposure Limit Type	Value
Organo silicone CAS: 117272-76-1	OSHA TWA / ACGIH TWA	No established exposure limit

8.2 Appropriate engineering controls:

No special ventilation requirements under normal use; general room ventilation is adequate.

B. Respiratory protection:

No special requirements under normal use conditions.

C. Specific protection for the hands:

Rubber gloves.

D. Eye and face protection:

Safety glasses.

E. Bodily protection:

Wear appropriate protective clothing to minimize skin contact.

F. Additional emergency measures:

Emergency eyewash station recommended where contact is likely.

Environmental exposure controls:

Avoid environmental spillage of the product and its container.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Liquid
Appearance	Opaque white liquid, floral fragrance
Odor	Floral fragrance

Odour threshold	No data available
Volatility	
Boiling point at atmospheric pressure	≥ 100°C (212°F)
Vapour pressure	Not established
Evaporation rate	Not established
Product Description	
Specific gravity (Water=1)	~1.020
Density	~8.50 lb/gal
Viscosity	Viscous
pH	~6.50–8.00
Solubility in water at 20°C	100%
Decomposition temperature	Not established
Melting point/freezing point	Not established
Flammability	
Flash Point	Not established (non-flammable aqueous emulsion)
Flammability (solid, gas)	No data available
Autoignition temperature	Not established
Lower / Upper flammability limit	No data available

9.2 Other information:

VOC content	0.0000 g/L
Oxidising properties	Not applicable
Corrosive to metals	Not relevant

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:
- Will not occur under normal conditions.
- 10.2 Chemical stability:
- Stable under normal conditions of storage, handling and use.
- 10.3 Possibility of hazardous reactions:
- Will not occur.
- 10.4 Conditions to avoid:

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Avoid direct sunlight	Not applicable

- 10.5 Incompatible materials:
- Strong oxidizers.
- 10.6 Hazardous decomposition products:
- Carbon monoxide, carbon dioxide (on thermal decomposition/combustion).

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects:
- In case of exposure that is repetitive, prolonged, or at concentrations higher than the recommended occupational exposure limits, adverse health effects may result depending on the means of exposure:
- A. Ingestion (acute effect):
- Harmful if swallowed. May cause headache, nausea and vomiting.
- B. Inhalation (acute effect):
- May be harmful if inhaled; not expected to be a problem under normal use conditions.
- C. Contact with skin and eyes (acute effect):
- May cause skin irritation (may be harmful in contact with skin). Causes eye irritation.
- D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):
- No data available. Not listed by NTP, IARC, ACGIH or OSHA as a carcinogen.
- E. Sensitizing effects:
- No data available.
- F. Specific target organ toxicity (STOT) – single exposure:
- No data available.
- G. Specific target organ toxicity (STOT) – repeated exposure:
- No data available.
- H. Aspiration hazard:
- No data available.

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
Organo silicone CAS: 117272-76-1	No data available	–

SECTION 12: ECOLOGICAL INFORMATION

No ecotoxicological data available for this product.

12.1 Toxicity:

Acute Toxicity	Species	Genus
No data available	–	–

12.2 Persistence and degradability:

No data available.

12.3 Bioaccumulative potential:

No data available.

12.4 Mobility in soil:

No data available (product is 100% water soluble).

12.5 Results of PBT and vPvB assessment:

Not established.

12.6 Other adverse effects:

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Dispose of contents and container according to local, state and federal regulations. For packaging: avoid treatments as far as possible – use dedicated containers.

Refer to national and local regulations on waste management.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR/RID / national road transport rules):

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	None known
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not applicable

Transport of dangerous goods by sea (IMDG):

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	N/A
14.5 Marine pollutant	No
14.6 Special precautions for user	None known
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not applicable

Transport of dangerous goods by air (IATA/ICAO):

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	None known
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989
The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

H313: May be harmful in contact with skin.
H333: May be harmful if inhaled.
H320: Causes eye irritation.

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Manufacturer's reference SDS for the organo-silicone based defoamer; publicly available GHS classification guidance.

Abbreviations and acronyms:

VOC: Volatile Organic Compound | OSHA: Occupational Safety and Health Administration | ACGIH: American Conference of Governmental Industrial Hygienists | IARC: International Agency for Research on Cancer | NTP: National Toxicology Program | TWA: Time-Weighted Average

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET