SAFETY DATA SHEET

SILICON DEFOAMER

CAS No.: Proprietary blend (main active: Organo silicone, CAS 117272-76-1)

This Safety Data Sheet is issued by Suraj Chemicals as the distributor/supplier of record, based on manufacturer and published GHS / regulatory reference data for this substance. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

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

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.

Supplier's details

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2. HAZARDS IDENTIFICATION

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

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.

Other hazards which do not result in classification

None identified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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.

Mixtures

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

4. FIRST AID MEASURES

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.

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.

Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	**Suitable:** CO2, dry chemical, dry sand, alcohol-resistant foam. **Unsuitable:** None known.
Specific hazards arising from the chemical	Aqueous emulsion, non-flammable. No unusual fire or explosion hazards known.
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.

6. ACCIDENTAL RELEASE MEASURES

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.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.
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.
Reference to other sections	See sections 8 and 13.

7. HANDLING AND STORAGE

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.

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.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Other information

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

10. STABILITY AND REACTIVITY

Reactivity Will not occur under normal conditions.

Chemical stability Stable under normal conditions of storage, handling and use.

Possibility of hazardous reactions Will not occur.

Conditions to avoid

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

Incompatible materials Strong oxidizers.

Hazardous decomposition products Carbon monoxide, carbon dioxide (on thermal decomposition/combustion).

11. TOXICOLOGICAL INFORMATION

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	–

12. ECOLOGICAL INFORMATION

No ecotoxicological data available for this product.

Toxicity

Acute Toxicity	Species	Genus
No data available	–	–

Persistence and degradability No data available.

Bioaccumulative potential No data available.

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

Results of PBT and vPvB assessment	Not established.
Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

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.

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

15. REGULATORY INFORMATION

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)

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

Disclaimer: 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.

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