ZEEL PRODUCT
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ISO 9001:2015 · ISO 14001:2015 · ISO 22000:2018

Safety Data Sheet (SDS / MSDS)

ZEELCHEM™ DF — Silicone Defoamer — prepared in accordance with UN GHS (Rev. 9) and the Indian MSIHC Rules, 1989

SAFETY DATA SHEET

DOCUMENT NO.	REVISION	ISSUE DATE	SUPERSEDES
ZP/SDS/DF/01	01	12-11-2026	—

GHS CLASSIFICATION	SIGNAL WORD	PICTOGRAMS	TRANSPORT
Not classified	None	None required	Not regulated

1 Identification of the substance / mixture and of the company

Product name	ZEELCHEM™ DF
Product type	Silicone antifoam emulsion (polydimethylsiloxane based)
Recommended use	Industrial defoamer / antifoaming agent
Uses advised against	Not for food-contact use unless a food-grade grade is specified
Supplier	ZEEL PRODUCT, A-23, Reva Duplex, Behind Bharat Petrol Pump, Near Shyamal Greens, Ankhol, New Waghodia Road, Vadodara, Gujarat 390019, India
Telephone	+91 97245 93964, +91 97238 59512
Email	zeelproduct@gmail.com
Emergency telephone	+91 97245 93964 (office hours)

2 Hazard identification

GHS classification	Not classified as hazardous according to UN GHS criteria
Signal word	None
Hazard statements	None
Precautionary statements	P262 Do not get in eyes. P280 Wear protective gloves / eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Other hazards	Spilled product makes surfaces very slippery.

3 Composition / information on ingredients

Component	CAS No.	Concentration (% w/w)
Polydimethylsiloxane	63148-62-9	18 – 22
Silica, amorphous, surface-treated (hydrophobic)	68611-44-9	1 – 3
Non-ionic emulsifiers (fatty alcohol ethoxylates)	68439-50-9	2 – 5
Water	7732-18-5	Balance

Contains a small amount of preservative (< 0.1 %). No component is present at a level requiring classification.

4 First-aid measures

Eye contact	Rinse immediately with plenty of water for at least 15 minutes, lifting eyelids. Seek medical advice if irritation persists.
Skin contact	Wash with soap and water. Remove contaminated clothing.
Inhalation	Not expected to be an inhalation hazard. Move to fresh air if discomfort occurs.
Ingestion	Rinse mouth with water. Do not induce vomiting. Seek medical advice if a large quantity is swallowed.
Most important symptoms	May cause temporary mild eye irritation.

5 Fire-fighting measures

Suitable extinguishing media	Water spray, foam, dry chemical, CO_2 — as appropriate for surrounding fire
Specific hazards	Water-based product, not flammable. On drying and heating, combustion may produce carbon oxides and silicon dioxide.
Protective equipment	Self-contained breathing apparatus and full protective clothing

6 Accidental release measures

Personal precautions	Wear gloves and goggles. Beware — spilled product is very slippery.
Environmental precautions	Prevent large quantities entering drains, surface water or soil.
Clean-up	Contain and absorb with sand, earth or inert absorbent; collect into labelled containers for disposal. Wash area with water.

7 Handling and storage

Handling	Avoid contact with eyes. Follow good industrial hygiene practice. Do not eat, drink or smoke in work areas.
Storage	Store in closed original containers at 5–35 °C. Protect from frost and direct sunlight.
Incompatible materials	Strong oxidising agents; strong acids and alkalis may break the emulsion.

8 Exposure controls / personal protection

Occupational exposure limits	No limits established for this mixture
Engineering controls	General ventilation is sufficient
Eye protection	Safety goggles
Hand protection	Nitrile or rubber gloves
Skin / body	Work clothing; apron if splashing is likely
Respiratory	Not normally required

9 Physical and chemical properties

Physical state	Liquid
Appearance	Thick, milky white liquid emulsion
Odour	Mild, characteristic
pH (as such)	6.0 – 8.0
Specific gravity (25 °C)	0.98 – 1.02
Viscosity (25 °C)	1,500 – 4,000 cP
Boiling point	≈ 100 °C (water)
Freezing point	≈ 0 °C (emulsion may break on freezing)
Flash point	Not applicable (water based)
Solubility in water	Dispersible
Explosive / oxidising properties	None

10 Stability and reactivity

Chemical stability	Stable under recommended storage conditions
Conditions to avoid	Freezing, temperatures above 40 °C for long periods

Hazardous reactions	None known
Hazardous decomposition	None under normal use

11 Toxicological information

Acute toxicity	Not classified. Components have low acute oral and dermal toxicity.
Skin corrosion / irritation	Not classified; prolonged contact may cause mild dryness
Eye damage / irritation	Not classified; may cause transient mild irritation
Sensitisation	Not classified
CMR effects	No component listed as carcinogenic, mutagenic or reproductive toxicant

12 Ecological information

Polydimethylsiloxane is not readily biodegradable but is removed from water by adsorption onto sludge in wastewater treatment; it is not expected to bioaccumulate. Low toxicity to aquatic organisms is expected at use levels.

13 Disposal considerations

Dispose of product and contaminated packaging in accordance with local regulations (in India, the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, as applicable). Small quantities may be treated in a biological effluent treatment plant. Rinse empty containers before recycling.

14 Transport information

UN number	Not applicable
Proper shipping name	Not regulated
Transport hazard class	Not regulated for road (ADR / Indian MVA), sea (IMDG) or air (IATA)
Packing group	Not applicable
Marine pollutant	No

15 Regulatory information

India	Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 — not listed in Schedule I
GHS	Not classified as hazardous
Other	Components are listed or exempt on major chemical inventories; check local requirements

16 Other information

Revision 01, issued 12-11-2026. Abbreviations: GHS — Globally Harmonized System; CAS — Chemical Abstracts Service; SDS — Safety Data Sheet.

This SDS is provided for reference. The information is believed to be correct to the best of our knowledge at the date of issue, but is not a guarantee of properties. Users should satisfy themselves of suitability for their own use.

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