SAFETY DATA SHEET

Silad® Aqua Max

According to Regulation (EU) 2020/878 and Classification under CLP Regulation (EC) No. 1272/2008

Revision Number	Revision Date	Version	Language
3.0	11/01/2026	Version 2.7 (12/07/2025)	English (EN)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Silad® Aqua Max

Product type: Silicone antifoam emulsion (mixture)

Other means of identification: Antifoam Emulsion

REACH registration number: Not applicable; mixture. See Section 3 for constituent information.

UFI (Unique Formula Identifier): To be assigned by the downstream user/importer placing the product on the EU market, in accordance with Annex VIII to CLP.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Antifoam / defoamer additive for industrial processes. Used as a formulation ingredient.

Uses advised against: Any use not in accordance with the supplier's or manufacturer's written instructions.

1.3 Details of the supplier of the safety data sheet

Company name: Química e Ingenieros Consultores S.A. de C.V.

Address: Priv. El Encino No. 750, Col. Lagrange, San Nicolás de los Garza, N.L., Mexico

Telephone: +52 81 8105 0063

E-mail of competent person responsible for this SDS: globalbusinesslink@quimiconsult.com

Note for EU importer/only representative: *As this product is manufactured outside the EU, an EU-based importer or Only Representative (OR) under Article 8 of REACH must be identified before placing the product on the EU market. The importer/OR details shall be inserted here in the final EU-market version of this SDS.*

1.4 Emergency telephone number

Emergency telephone (manufacturer): +52 81 8105 0063 (available during business hours, Mexico time)

EU poison centres: Consult the national poison information centre of the EU Member State where the product is used. A list is available at: https://echa.europa.eu/poison-centres-in-europe-en

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP), as amended:

- Skin Irritation, Category 3 — H316: Causes mild skin irritation.
- Eye Irritation, Category 2B — H320: Causes eye irritation.
- Specific Target Organ Toxicity – Single Exposure (STOT SE), Category 3 — H336: May cause drowsiness or dizziness.

Note: Category 3 skin irritation (H316) and Category 2B eye irritation (H320) are not harmonised hazard classes under Annex I to CLP. They are retained from the manufacturer's original GHS classification for transparency. Under CLP these endpoints would not, on their own, trigger hazard pictogram or signal-word labelling. The EU importer/Only Representative must review and, where appropriate, reclassify the mixture using the CLP calculation method (Annex I, Part 3) before placing it on the EU market.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP):

Hazard pictograms (GHS): GHS07 — Exclamation mark (for H336)

Signal word: Warning

Hazard statements

- H316 — Causes mild skin irritation. (supplemental)
- H320 — Causes eye irritation. (supplemental)
- H336 — May cause drowsiness or dizziness.

Precautionary statements

- P261 — Avoid breathing mist/vapours/spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P280 — Wear protective gloves, protective clothing and eye protection.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P303+P352 — IF ON SKIN: Wash with plenty of soap and water.
- P312 — Call a POISON CENTRE or doctor if you feel unwell.
- P403+P233 — Store in a well-ventilated place. Keep container tightly closed.
- P501 — Dispose of contents and container in accordance with national and local regulations.

2.3 Other hazards

PBT / vPvB assessment: Based on available information, the constituents of this mixture do not meet the criteria for PBT (persistent, bioaccumulative, toxic) or vPvB (very persistent, very bioaccumulative) substances as set out in Annex XIII to REACH.

Endocrine disruptor properties: No constituent of this mixture is currently identified as having endocrine-disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or (EU) 2018/605.

Other adverse effects: Product may produce slippery surfaces when spilled. Prolonged or repeated skin contact may cause defatting of the skin leading to dryness or cracking.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

The product is a water-based emulsion of polydimethylsiloxane (PDMS) with emulsifiers and preservatives. The only constituent present in a concentration requiring disclosure under Article 31 and Annex II of REACH (as amended by Regulation (EU) 2020/878) is:

Chemical name	CAS No.	EC No.	Index No.	REACH Reg. No.	Conc. (% w/w)
Polydimethylsiloxane (dimethicone)	63148-62-9	Polymer — exempt from EC No. listing	Not listed	Polymer — exempt from registration under Art. 2(9) REACH	> 50
CLP classification of constituent	Polydimethylsiloxane (CAS 63148-62-9) is not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP). It is a polymer exempt from REACH registration under Article 2(9).				

Additional constituents (emulsifiers, water and preservatives) are present at concentrations below the thresholds requiring disclosure under Annex II, point 3.2 of REACH and are not classified as hazardous. Full

compositional details are available upon request from the supplier for formulation-registration purposes, subject to confidentiality arrangements.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Move the affected person to fresh air. Keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.

Skin contact: Wash the contaminated area with plenty of soap and water. Remove contaminated clothing. If skin irritation occurs, get medical advice.

Eye contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

Ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting unless directed by medical personnel. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Inhalation: prolonged or excessive exposure may cause dizziness and drowsiness.
- Skin contact: prolonged or repeated contact may cause skin defatting, leading to dryness or cracking.
- Eye contact: may cause temporary eye irritation and mild discomfort. Corneal injury is not expected.
- Ingestion: no harmful effects expected from ingestion of small amounts. Large amounts may cause abdominal discomfort, nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No specific antidote known. Show this Safety Data Sheet to the attending physician.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO_2), dry chemical powder, alcohol-resistant foam, water spray/fog. For large fires use universal (AFFF) foam.

Unsuitable extinguishing media: Do not use a high-pressure water jet, which may spread the fire.

5.2 Special hazards arising from the substance or mixture

During a fire, smoke may contain the original material together with combustion products of varied composition, which may be toxic and/or irritating. Hazardous decomposition products may include carbon oxides (CO, CO_2), silicon oxides, and formaldehyde.

5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) and full protective equipment. Attack the fire with the wind at your back. Cool closed containers exposed to fire with water spray. Apply foam in accordance with hydrocarbon-fire-fighting technique. Do not allow fire-extinguishing water to enter drains or watercourses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Evacuate unnecessary personnel. Ensure adequate ventilation. Avoid contact with skin and eyes. Wear appropriate personal protective equipment (see Section 8). Spilled material is extremely slippery — take care to avoid slips and falls.

For emergency responders: Wear suitable chemical-resistant protective clothing, gloves and eye protection. Eliminate all sources of ignition.

6.2 Environmental precautions

Prevent the product from entering drains, sewers, surface water, groundwater or soil. If accidental contamination of watercourses occurs, inform the competent authority in accordance with national regulations.

6.3 Methods and material for containment and cleaning up

Contain the spill using inert absorbent materials such as sand, silica gel, vermiculite or sawdust. Collect the absorbed material into labelled containers for disposal in accordance with Section 13. Clean the contaminated area with plenty of water and detergent. Residual films may remain slippery.

6.4 Reference to other sections

See Section 8 for personal protective equipment and Section 13 for waste disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear appropriate personal protective equipment (see Section 8). Avoid contact with skin and eyes. Do not breathe mist or spray. Ensure adequate ventilation in the handling area. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke in handling areas. Keep away from sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original containers in a cool, dry, well-ventilated place, protected from direct sunlight and away from sources of heat and ignition. Recommended storage temperature: 5 °C to 35 °C. Protect from freezing, which may irreversibly break the emulsion. Keep away from strong oxidising agents. Suitable container materials: polyethylene (HDPE), stainless steel.

7.3 Specific end use(s)

Antifoam / defoamer additive used as an ingredient in industrial formulations. Refer to the downstream-user's technical data sheet for specific application guidance.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (EU): No indicative occupational exposure limit values (IOELVs) have been established under Directive 2000/39/EC, 2006/15/EC, 2009/161/EU or (EU) 2019/1831 for polydimethylsiloxane (CAS 63148-62-9).

DNEL / DMEL: Not applicable. Polydimethylsiloxane is a polymer exempt from REACH registration; no DNEL has been derived.

PNEC: Not applicable for the same reason as above.

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate general or local exhaust ventilation to keep airborne concentrations of any mist or vapour as low as reasonably practicable. Provide eye-wash stations and safety showers in the workplace.

Individual protection measures

Eye / face protection: Safety glasses with side shields conforming to EN 166. Use chemical goggles if splashing is likely.

Skin protection — hands: Chemical-resistant protective gloves conforming to EN ISO 374. Suitable materials: nitrile rubber (minimum thickness 0.4 mm) or neoprene. Breakthrough time should be determined by the glove supplier for the specific application.

Skin protection — body: Suitable protective clothing (long sleeves, apron). Wear chemical-resistant boots where splash is likely.

Respiratory protection: Not required under normal use conditions with adequate ventilation. Where mist may be generated, wear a particulate respirator (EN 143, type P2 or P3 filter).

Thermal hazards: Not applicable.

Environmental exposure controls

Do not discharge to surface water or to the sanitary sewer system. Comply with applicable EU environmental legislation, including Directive 2008/98/EC on waste.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid (emulsion)
Colour: Opaque white
Odour: Mild, characteristic
Odour threshold: Not determined
Melting point / freezing point: Not determined (aqueous emulsion; freezes below 0 °C)
Boiling point / boiling range: ≈ 100 °C (water phase)
Flash point: > 100 °C (not flammable as supplied)
Evaporation rate: Not determined
Flammability (solid, gas): Not applicable (liquid)
Upper / lower flammability or explosive limits: Not determined
Vapour pressure: ≈ 23 hPa at 20 °C (water phase)
Vapour density: Not determined
Relative density: ≈ 1.00 g/cm³ at 20 °C
Solubility — in water: Dispersible in water
Solubility — other: Not determined
Partition coefficient (n-octanol/water), log Pow: Not applicable (mixture)
Auto-ignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity (dynamic, at 20 °C): 4,000 – 5,000 mPa·s (cP)
Explosive properties: Not explosive
Oxidising properties: Not oxidising
pH (1 % solution, 25 °C): 4.5 – 7.0

9.2 Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions of storage, handling and use (see Section 7).

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal conditions of use.

10.4 Conditions to avoid

Avoid freezing, extreme heat and direct sunlight. Avoid contamination.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

On thermal decomposition at elevated temperatures (> 150 °C in air), may release formaldehyde, carbon oxides (CO, CO_2) and silicon oxides.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met. No acute toxicity data are available for the mixture. Polydimethylsiloxane (CAS 63148-62-9) has very low acute toxicity: oral LD_{50} (rat) > 17,000 mg/kg bw; dermal LD_{50} (rabbit) > 19,400 mg/kg bw.

Skin corrosion / irritation

Classified as Skin Irritation Category 3 (H316 — Causes mild skin irritation). Prolonged or repeated contact may cause defatting of the skin leading to dryness or cracking.

Serious eye damage / irritation

Classified as Eye Irritation Category 2B (H320 — Causes eye irritation). Temporary, reversible discomfort is expected on contact. Corneal injury is not expected.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met. Polydimethylsiloxane is not listed in IARC, NTP or EU Annex VI carcinogen lists.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT — single exposure

Classified as STOT SE Category 3 (H336 — May cause drowsiness or dizziness).

STOT — repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties: No constituent is identified as an endocrine disruptor under Regulation (EU) 2018/605.

Other information: None.

SECTION 12: Ecological information

12.1 Toxicity

No ecotoxicity data are available for the mixture as such. The principal constituent, polydimethylsiloxane (CAS 63148-62-9), exhibits very low aquatic toxicity due to its extremely low water solubility. It is not classified as hazardous to the aquatic environment under CLP.

12.2 Persistence and degradability

Polydimethylsiloxane is not readily biodegradable. However, in soil it undergoes abiotic hydrolysis to lower-molecular-weight silanols that are subsequently degraded.

12.3 Bioaccumulative potential

Polydimethylsiloxane has a very low bioaccumulation potential due to its high molecular weight and low water solubility.

12.4 Mobility in soil

Low mobility in soil expected. The product adheres to soil particles.

12.5 Results of PBT and vPvB assessment

Constituents are not considered to meet the criteria for PBT or vPvB substances as defined in Annex XIII to REACH.

12.6 Endocrine disrupting properties

No constituent of this mixture is identified as having endocrine-disrupting properties for the environment under the criteria of Regulation (EU) 2018/605.

12.7 Other adverse effects

Do not release to the environment. Avoid discharge to watercourses.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product disposal: Dispose of in accordance with Directive 2008/98/EC on waste and any national or local regulations in force. Where possible, recycling is preferred to disposal. Incineration in a licensed facility is recommended for residues.

Contaminated packaging: Empty containers should be completely drained and, where possible, returned for recycling or sent to a licensed waste contractor. Do not re-use empty containers.

European Waste Catalogue (EWC) code: The appropriate code shall be assigned by the end-user on the basis of the use made of the product. Suggested codes include: 07 06 99 — Wastes not otherwise specified from the MFSU (manufacture, formulation, supply and use) of fats, lubricants, soaps, detergents, disinfectants and cosmetics.

SECTION 14: Transport information

The product is not classified as dangerous goods under the international transport regulations listed below.

Regulation	ADR/RID (road/rail)	IMDG (sea)	IATA/ICAO (air)	ADN (inland waterway)
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	Not applicable (Antifoam Emulsion Compound)	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Not a marine pollutant / not environmentally hazardous			

14.6 Special precautions for user

No special precautions required beyond those described in Sections 7 and 8.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable. The product is not intended for maritime transport in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific to the substance or mixture

EU regulations

- Regulation (EC) No. 1907/2006 (REACH), as amended.
- Regulation (EC) No. 1272/2008 (CLP), as amended.
- Commission Regulation (EU) 2020/878 amending Annex II to REACH (format for Safety Data Sheets).
- Directive 2008/98/EC on waste, as amended.
- Regulation (EC) No. 1907/2006 Annex XVII — Restrictions: no restrictions relevant to this mixture.
- Regulation (EC) No. 1907/2006 Annex XIV — Authorisation list: no constituent of this mixture is on the authorisation list.

- SVHC Candidate List (REACH Art. 59): no constituent is currently on the Candidate List for Authorisation at concentrations ≥ 0.1 % w/w.
- Regulation (EU) 2019/1021 on persistent organic pollutants: not applicable.

National regulations

The user should verify compliance with all applicable national regulations in the Member State of use.

15.2 Chemical safety assessment

A chemical safety assessment under REACH has not been performed for the mixture. For the main constituent (polydimethylsiloxane), a CSA is not required as the substance is a polymer exempt from REACH registration under Article 2(9).

SECTION 16: Other information

16.1 Indication of changes

Version 3.0 (22/04/2026): complete revision of the Safety Data Sheet to comply with Regulation (EU) 2020/878. Classification harmonised with Regulation (EC) No. 1272/2008 (CLP). English translation. Supersedes version 2.7 (12/07/2025).

16.2 Abbreviations and acronyms

- ADR — European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS — Chemical Abstracts Service
- CLP — Regulation (EC) No. 1272/2008 on Classification, Labelling and Packaging
- DNEL — Derived No-Effect Level
- EC No. — European Community Number
- GHS — Globally Harmonised System of Classification and Labelling
- IATA — International Air Transport Association
- IMDG — International Maritime Dangerous Goods
- LD_{50} — Lethal Dose, 50 %
- PBT — Persistent, Bioaccumulative and Toxic
- PDMS — Polydimethylsiloxane
- PNEC — Predicted No-Effect Concentration
- REACH — Regulation (EC) No. 1907/2006 (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- STOT SE — Specific Target Organ Toxicity — Single Exposure
- SVHC — Substance of Very High Concern
- UFI — Unique Formula Identifier
- vPvB — very Persistent and very Bioaccumulative

16.3 Key literature references and sources for data

- ECHA — European Chemicals Agency database (https://echa.europa.eu).
- Regulation (EC) No. 1272/2008 (CLP) and Annex VI.
- Commission Regulation (EU) 2020/878.
- Manufacturer's internal technical and toxicological data.

16.4 Full text of the H-phrases and EUH-phrases referred to in this SDS

- H316 — Causes mild skin irritation.
- H320 — Causes eye irritation.
- H336 — May cause drowsiness or dizziness.

16.5 Training advice

Provide adequate information, instruction and training to operators who handle this product, in accordance with Article 35 of REACH and national occupational-health regulations.

16.6 HMIS rating (for reference only; not required under EU law)

Health: 1 | Flammability: 0 | Reactivity: 0 | PPE: B

Disclaimer: *The information in this Safety Data Sheet was compiled by the technical department of Química e Ingenieros Consultores S.A. de C.V. and is based on the current state of our knowledge and the information provided by the manufacturer. It is intended to describe the product solely from the point of view of safety requirements and does not constitute a specification or a guarantee of product properties. The user is responsible for ensuring the suitability and completeness of the information for their particular use. This document is issued in compliance with Regulation (EU) 2020/878; however, before placing the product on the EU market, the importer or Only Representative should verify the classification, labelling and any national transposition requirements of the Member State(s) of use.*