

SAFETY DATA SHEET

Linosa Polysorbate 20

CAS: 9005-64-5 | EC: 500-018-3 | Sorbitan Monolaurate, Ethoxylated | Revision: May 2026

SECTION 1: Identification of the Substance and Company

1.1 Product Identifier

Product Name	Linosa Polysorbate 20
Chemical Name	Sorbitan monolaurate, ethoxylated
CAS Number	9005-64-5
EC Number	500-018-3
REACH Status	Polymer — no registration number required. Listed on ECICS and EU NLP list.
Synonyms	Polyoxyethylene (20) sorbitan monolaurate; PEG sorbitan monolaurate; Tween 20; PSML; Sorbimacrogol Laurate 300
Use	Non-ionic surfactant. Additive for food, pharmaceuticals and cosmetics.

1.3 Supplier Details

Company	Linosa Ltd (Speciality Chemicals)
Address	ICG House, Station Approach, Oldfield Lane North, Greenford, Middlesex, UB6 0AL, UK
Telephone	+44 (0) 1923 842304
Email	linosa@btclick.com
Website	www.linosaltd.co.uk

1.4 Emergency Telephone

Business hours: +44 (0) 1923 842304. Out of hours: NHS Poisons Information Service — 0344 892 0111.

SECTION 2: Hazards Identification

2.1 Classification (CLP, EC No. 1272/2008)

NOT classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label Elements

Signal Word	None
Hazard Statements	None assigned.
Precautionary Stmtms	Good hygiene practice should be observed (see Section 7).
Hazard Pictograms	None required.

2.3 Other Hazards

- No PBT or vPvB substances at $\geq 0.1\%$ (w/w). No SVHC content.

SECTION 3: Composition / Information on Ingredients

Chemical Name	Sorbitan monolaurate, ethoxylated
CAS Number	9005-64-5
EC Number	500-018-3
Content	100% (single substance)
REACH Status	Polymer

SECTION 4: First Aid Measures

Eye Contact

Flush immediately with plenty of clean running water for at least 15 minutes, lifting eyelids. Seek medical attention if pain persists.

Skin Contact

Flush skin and hair with running water (and soap). Seek medical attention if irritation occurs.

Inhalation

Remove to fresh air. If fumes or combustion products were inhaled, seek medical attention. Other measures usually unnecessary.

Ingestion

Do NOT induce vomiting. Rinse mouth with water. Give water to drink slowly. Seek medical advice. If person is drowsy or unconscious, do not give liquids.

4.2 Symptoms

See Section 11.

4.3 Medical Attention

Treat symptomatically.

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing Media

Suitable: alcohol-stable foam, dry chemical powder, BCF (where permitted), CO₂, water spray/fog (large fires only).

5.2 Special Hazards

- Combustible. Heating may cause expansion or decomposition leading to violent rupture of containers.
- On combustion may emit toxic fumes: CO, acrid smoke. Mists containing combustible materials may be explosive.
- Combustion products: CO₂, CO, other pyrolysis products.

5.3 Advice for Fire-Fighters

- Alert Fire Brigade. Wear full body protective clothing with breathing apparatus.
- Prevent spillage from entering drains or watercourses.
- Use water delivered as fine spray to control fire and cool adjacent area.
- DO NOT approach containers suspected to be hot.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

Refer to Section 8 for PPE. Mark out contaminated area. Prevent access to unauthorised personnel.

6.2 Environmental Precautions

Do not discharge into drains or watercourses.

6.3 Clean-Up

- Transfer to a closable, labelled salvage container for disposal.
- Wash spillage site with large amounts of water.

6.4 Reference

See Sections 8 and 13.

SECTION 7: Handling and Storage

7.1 Handling

IMPORTANT — Ethoxylate oxidation risk: when ethoxylates are heated vigorously in the presence of air or oxygen at temperatures exceeding 160°C, exothermic oxidative degradation and autoignition may occur. Use nitrogen blanketing to minimise this risk.

- Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area. Prevent concentration in hollows and sumps.
- No smoking, naked lights or ignition sources.
- DO NOT eat, drink or smoke when handling.
- Keep containers securely sealed. Store away from incompatible materials.

7.2 Storage

- Store in original containers, securely sealed in a cool, dry, well-ventilated area.
- No smoking, naked lights or ignition sources.
- Suitable containers: carbon steel coated with baked phenolic, glass (lab quantities).
- Storage incompatibility: avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.
- Prolonged storage in air or oxygen may cause product degradation — use nitrogen atmosphere where practicable.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

No DNEL/PNEC values established. No specific OEL/WEL.

8.2 PPE

Protection	Requirement
Eye / Face	Safety glasses with side shields; chemical goggles.
Hands (prolonged)	EN 374 protection class 5 (breakthrough > 240 min). PVC gloves recommended.
Hands (brief contact)	EN 374 protection class 3 (breakthrough > 60 min).
Skin / Body	Overalls, PVC apron, safety boots.
Respiratory	Type A-P filter. Ensure adequate engineering ventilation first.

Property	Value
Physical State	Oily liquid
Colour	Yellow
Odour	No data available
pH	Not determined
Boiling Point	> 100°C
Flash Point	> 126°C
Vapour Pressure (20°C)	< 0.1 kPa
Vapour Density (Air=1)	< 0.1
Relative Density (Water=1)	1.07
Molecular Weight	approx. 1,228 g/mol
Solubility in Water	Miscible

SECTION 10: Stability and Reactivity

Reactivity	No specific reactivity hazards under recommended conditions.
Chemical Stability	Stable under normal conditions.
Hazardous Reactions	Will not occur under normal storage or transport conditions.
Conditions to Avoid	Heat, flames, direct sunlight, sources of ignition.
Incompatible Materials	Oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.
Decomposition Products	CO, CO ₂ and other pyrolysis products on combustion.

SECTION 11: Toxicological Information

11.1 Acute Toxicity

Oral LD50 (Rat)	37,000 mg/kg — extremely low acute toxicity
Skin (Human)	15 mg/3d — mild; sorbitan esters are minimal to mild skin irritants
Eye Irritation	Limited evidence of eye irritation; nonionic surfactants may produce localised corneal anaesthesia — avoid eye contact
Sensitisation	Sorbitan esters were generally nonsensitising (guinea pig studies)
Mutagenicity	Not mutagenic (Ames test, sorbitan monostearate CAS 1338-41-6)

Carcinogenicity	Classification criteria not met based on available data
Reproductive Toxicity	Classification criteria not met based on available data
Chronic/Skin	Prolonged/repeated skin contact may cause dryness and cracking

SECTION 12: Ecological Information

12.1 Toxicity

Sorbitan esters are not acutely toxic to aquatic organisms at likely environmental concentrations. BCF < 100 — surfactants expected to be metabolised rapidly during bioaccumulation process.

12.2 Persistence

Sorbitan esters biodegradable to 60–70% in 28 days (aerobic conditions). Readily biodegradable.

12.3 Bioaccumulation

No data available. BCF < 100 expected based on metabolic studies.

12.5 PBT/vPvB

No data available.

DO NOT discharge into sewers or waterways.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

- Dispose of in accordance with applicable local, national and EU/UK waste management legislation.
- Dispose of via a licensed waste disposal contractor.
- Not classified as hazardous waste under EU Directive 2008/98/EC.
- Do not dispose of via drains or into the environment.

SECTION 14: Transport Information

NOT classified as a dangerous good under international transport regulations (ADR/RID, IMDG, ICAO/IATA).

Regulation	ADR/RID	ADN	IMDG	IATA
UN Number	Not regulated	Not regulated	Not regulated	Not regulated
Env. Hazard	No	No	No	No

SECTION 15: Regulatory Information

15.1 EU / UK Regulations

- REACH Regulation (EC) No. 1907/2006 — Annex XIV: not listed. Annex XVII: no restrictions. No SVHC components.
- CLP Regulation (EC) No. 1272/2008 — not classified as hazardous.
- Commission Regulation (EU) 2015/830 — SDS format compliance.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out by Linosa Ltd for this product.

- REACH regulatory lists: ECICS (European Customs Inventory); EU No-Longer Polymers List (NLP) (67/548/EEC).

SECTION 16: Other Information

Original SDS	Linosa Polysorbate 20 MSDS (Linosa Ltd, revised 24 June 2021), reformatted May 2026
Linosa Revision	May 2026
Prepared By	Linosa Ltd — Technical Department
SDS Format	GHS / REACH 16-section format per Commission Regulation (EU) 2015/830 / UK retained law

DISCLAIMER: The information contained in this Safety Data Sheet is based on the current state of knowledge and current legislation. It provides guidance on health, safety and environmental matters and should not be construed as a product guarantee. Linosa Ltd accepts no liability for any loss or damage arising from reliance on this information.