Pure Ingredients
Cosmetics • Personal care • Natural health

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SUNVOLEC (SUNFLOWER LECITHIN) – SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

PRODUCT IDENTIFIER

Product name	Sunvolec (Sunflower Lecithin)
Synonym / Trade name	Phosphatides; Phospholipids / PURESUN LECITHIN L
Product uses	Emulsifier, stabiliser, and release agent in food and cosmetic industries

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Registered distributor company name	Pure Ingredients Ltd
Address	21b Akatea Road, Glendene, Auckland 0602 New Zealand
Telephone	+64 9813 5619
Website	www.pureningredients.co.nz
Email	compliance@pureningredients.co.nz

EMERGENCY TELEPHONE NUMBER

Association / Organisation	Not Available
Emergency telephone numbers	111
Other emergency telephone numbers	0800 764 766

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: Not a hazardous substance or mixture according to EC 1272/2008

2.2 Label Elements: Not a hazardous substance or mixture according to EC 1272/2008

2.3 Other hazards: None known.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Preparation (mixture)	Natural phospholipids mix from Sunflower oil > 60%; Vegetable Oil < 40%.
CAS number	8002-43-5

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Eye Contact	Any material that contacts the eyes should be washed out immediately with water for at least 15minutes. Keep eye wide open while rinsing. If easy to do, remove contact lenses. Protect unharmed eye.
Skin Contact	Wash with soap and copious amounts of water. Take off contaminated clothing and shoes immediately.
Inhalation	Move to fresh air. Get medical attention if symptoms persist.
Ingestion	Material is of sufficiently low tocicity that induction of vomiting should be necessary. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	No specific symptoms known.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing Media	Water spray, carbon dioxide, dry chemical powder or appropriate foam.
Special protective equipment	Not known specific hazards during firefighting
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personnel precautions	Use personal protective equipment.
Environmental precautions	Try to prevent the material from entering drains or water courses.
Procedures for spill / leak clean up	Absorb spill on sand or vermiculite, then place in a closed container for its disposal. Ventilate area and wash spill site with soap and water after material pickup is complete.
Reference to other sections	For personal protection see section 8. For disposal considerations see section 13.

SECTION 7 HANDLING AND STORAGE

Handling	For personal protection see section 8. Take necessary action to avoid static electricity discharge. Product could burn under fire conditions.
Storage	Keep container tightly closed and dry. Store in a cool, dry area, un-der nitrogen. Keep protection from light and heat. Keep away from odorous and toxic substances.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters	Contains no substances with occupational exposure limit values.
Exposure controls	Respiratory protection: No personal respiratory protective equipment normally required. Hand protection: Glove material, nitrile rubber. Skin and body protection: Lightweight protective clothing. Eye protection: Use chemical safety glasses. Hygiene: General industrial hygiene practice.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear brownish red paste
Odour	Typical vegetable oil
Odour Threshold	Not available
pH	Not applicable
Flash Point	> 200°C
Boiling Point	> 200°C
Melting Point	< 15°C
Relative Density	0.99 – 1.01
Vapour Pressure	Not available
Flammability	Not flammable
Solubility	Insoluble in water
Viscosity	12000 cP @25°C
Evaporation rate	< 1
Vapor pressure	~13 mbar @155°C
Auto ignition temperature	> 420°C
Partition Coefficient: n-octanol/water	> 6

SECTION 10 STABILITY AND REACTIVITY

Reactivity	No hazardous reactions if stored and handled as indicated.
Chemical Stability	Stable under inert gas.
Possibility of hazardous reactions	No hazardous reactions if stored and handled as indicated.
Conditions to avoid	Avoid contact with air.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	No hazardous decomposition products if stored and handled as indicated.
Thermal decomposition	> 300°C.

SECTION 11 TOXICOLOGICAL INFORMATION

Primary routes of exposure: Ingestion, inhalation, eye or skin contact.	Skin: This product has a low potential to cause allergic skin reactions. Eye: This product has a low potential to cause allergic eyes reactions.
Acute Toxicity / Effects	Acute Toxicity: Virtually nontoxic after a single ingestion or a single skin contact Oral: >9000 mg/kg LD 50 rat (Male) Inhalation: Not available information Dermal: >3000 mg/kg LD 50 rat (Male) Assessment other acute effects: Based on available data, classification criteria are not met (STOT single). Irritation / corrosion: Not irritating to the skin or to the eyes. Sensitization: Caused skin sensitization in animal studies. Aspiration Hazard: No aspiration hazard expected.
Chronic Toxicity / Effects	Repeated dose toxicity: Repeated oral uptake did not cause sub-stance-related effects. Genetic toxicity: Most of the results from the available studies show no evidence of a mutagenic effect. Literature data. Carcinogenicity: Most of the results from the available studies show no evidence of a carcinogenic effect. Literature data. Teratogenicity: Most of the results from the available studies show no evidence of a teratogenic effect. Literature data. Symptoms of Exposure: The most important known symptoms and effects are described in sections 2 and/or 11. Further symptoms and effects are so far not known.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish: LC 50 (96h) > 10000 mg/l, Leuciscus idus (DIN 38412 Part 15, static). The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances of a similar structure or composition.

Aquatic invertebrates: EC 50 (48h) > 500 mg/l, Dapnia magna
(Directive 79/831/EEC, static). The details of the toxic effect relate to the nominal concentration. The product has low solubility in test medium. An aqueous solution prepared with solubilizers has been tested. The statement has been derived from substances of a similar structure or composition.

Chronic toxicity to fish: No observed effect concentration (28d) >100 mg/l, Oncorhynchus mykiss (OEGD Guideline 215, semi static). The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances of a similar structure or composition.

Chronic toxicity to aquatic invertebrates: Study scientifically not justified.
Assessment of terrestrial toxicity: Study scientifically not justified.

Microorganisms / Effect on activated sludge: Toxicity to microorganisms: DIN 38412 Part 27 (draft) aquatic bacterium / EC 10 (30 min): > 10000 mg/l.
The details of the toxic effect relate to the nominal concentration.
DIN EN ISO 8192 aerobic activated sludge, domestic EC 20 (30 min): >900 mg/l.

12.2 Persistence and degradability: Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria). Biodegradable.
Elimination information: 70 - 80 % BOD of the ThOD (63d) (OECD 301F; ISO 9408; 92/69/EEC, C.4 - D) (aerobic, activated sludge, domestic).

12.3 Bioaccumulative potential: Accumulation in organism is not to be expected.

12.4 Mobility in soil: Assessment transport between environmental compartments not determined.

12.5 Results of PBT and vPvB assessment: The substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects: There is no data for this product.

SECTION 13 DISPOSAL CONSIDERATION

Discharge, treatment or disposal may be subject to national, state or local laws. Dispose container in accordance with national, state and regulations.
RCRA: None.

SECTION 14 TRANSPORT INFORMATION

This material is NOT dangerous for air, ground or marine transport. 14.1 UN number
ADR: Not regulated
RID: Not regulated
DOT: Not regulated
TDG: Not Regulated
ICAO/IATA: Not Regulated
IMDG/IMO: Not Regulated
14.2 Proper shipping name
ADR: Not dangerous goods
RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
14.3 Transport hazard class
ADR: Not dangerous goods
RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
14.5 Environmental hazards
ADR: Not dangerous goods
RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
14.6 Special precautions for user
Not classified as dangerous in the meaning of transport regulations.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No data available.

SECTION 15 REGULATORY INFORMATION

Classification and labelling according to law 1272/2008/EC
Symbols of danger: Not subject of the identification regulations.
Federal regulations
Registration status: Chemical: TSCA, US released / listed; Cosmetic: TSCA, US released / exempt; Food: TSCA, US released exempt.
EPCRA 311 / 312 (hazard categories): No
NFPA Hazard codes: Health: 0; Fire: 1; Reactivity: 0; Special: None
HMIS III rating: Health: 0; Flammability: 1; Physical hazard: 0

SECTION 16 OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

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