

MIXED TOCOPHEROLS ADVANTIOX 70IP (TOCOMIX SUNFLOWER) – SDS

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

PRODUCT IDENTIFIER

Product Name	Mixed Tocopherols ADVANTIOX 70IP (TOCOMIX Sunflower)
Other Names	d-Tocopherols, Natural Mixed Tocopherols
Recommended Use	TOCOMIX 70 IP is used as a natural antioxidant in food and cosmetic industries.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Registered distributor company name	Pure Ingredients Ltd	Pure Nature
Address	626A Rosebank Road, Avondale 1026	626A Rosebank Road, Avondale 1026
Telephone	+64 9 813 5619	+64 813 9412
Website	www.pureingredients.co.nz	www.purenature.co.nz
Email	compliance@pureingredients.co.nz	info@purenature.co.nz

EMERGENCY TELEPHONE NUMBER

Association / Organisation	0800 CHEMCALL / 0800 243 622 (24hr)
Emergency telephone numbers	111
Other emergency telephone numbers	0800 764 766

SECTION 2 HAZARDS IDENTIFICATION

GHS / HSNO Hazard Classification	Not classified
HSNO Approval Number	Not classified
Hazard Nature	This product is not classified under HSNO criteria
Pictogram(s)	Nil
Signal Word	Nil
Hazard Statement(s)	Nil
Prevention Statements(s)	Nil
Response Statement(s)	Nil
Storage Statement(s)	Nil
Disposal Statement(s)	Nil

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance/ Preparation (Mixture)	Natural Mixed Tocopherols Min. 70% Refined Sunflower oil Max. 30%
Chemical Characterization	Mixture of phospholipids, Triglycerides and Glycolipids.
CAS Number	Tocopherols: 1406-66-2 Sunflower oil: 8001-21-6

SECTION 4 FIRST AID MEASURES

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

General: No hazards which require special first aid measures.

Eye: Any material that contacts the eyes should be washed out immediately with water for at least 15 minutes. Keep eye wide open while rinsing. If easy to do, remove contact lenses. Protect unharmed eye.

Skin: Wash with soap and copious amounts of water. Take off contaminated clothing and shoes immediately.

Description of first aid measures (contd.)

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

Ingestion: Material is of sufficiently low toxicity that induction of vomiting should not be necessary. Never give any-thing 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 with soap and copious amounts of water. Take off contaminated clothing and shoes immediately.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing Media	Water spray, Carbon Dioxide, Dry Chemical Powder or appropriate Foam.
Advice for Fire Fighters	Wear self-contained breathing apparatus for firefighting if necessary.
Special hazards arising from the substance or mixture:	Not known specific hazards during firefighting.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: 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, than 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

Precautions for safe handling	For personal protection see section 8. Take necessary action to avoid static electricity discharge. Product could burn under fire conditions.
Conditions for safe storage	Keep container tightly closed and dry. Store in a cool, dry area, under nitrogen. Keep protection from light and heat. Keep away from odorous and toxic substances.
Specific end use(s)	This product may be used in food.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear brownish red	Vapor pressure: ~13 mbar @155°C
Odour: Typical vegetable oil	Vapor density: Not available
Odour threshold: Not available	Relative density: 0.92 - 0.96
pH: Not applicable	Solubility: Insoluble in Water
Melting point: <4°C	Partition coefficient: n-octanol/water: >6
Boiling point: >200°C	Auto ignition temperature: >420°C
Flash point: >200°C	Decomposition temperature: Not available
Evaporation rate: <1	Viscosity: 120 - 210 cP @60°C
Flammability: Not flammable	Explosive properties: Not applicable
Upper/Lower flammability or explosive limits: For liquids not Relevant.	Oxidizing properties: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Chemical stability	Stable under inert gas.
Conditions to avoid	Avoid contact with air.
Reactivity	No hazardous reactions if stored and handled as indicated.
Possibility of hazardous reactions	No hazardous reactions if stored and handled as indicated.
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: Not caused skin sensitization in animal studies.

Aspiration Hazard: No aspiration hazard expected.

Chronic Toxicity / Effects

Repeated dose toxicity: Repeated oral uptake did not cause substance-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.

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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 sub-stances of a similar structure or composition.

Aquatic invertebrates: EC 50 (48h) > 500 mg/l, *Daphnia magna* (Directive 79/831/EEC, static). The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution pre-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* (OECD Guideline 215, semistatic). 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

Waste treatment methods

Discharge, treatment or disposal may be subject to national, state or local laws. Physically clean spill area, use absorbents if required. Incinerate or dispose of by composting or to approved landfill accordance with the local regulations.

SECTION 14 TRANSPORT INFORMATION

Transport	Road & Rail	Marine	Air
UN number	Not classified	Not classified	Not classified
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	-	-	-
Special precautions for user	-	-	-

SECTION 15 REGULATORY INFORMATION

Classification and labeling 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): Acute.

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.

Reference: supplier's SDS.

A004, VIT-MIXED v00, 03-03-2017.

v01, 29-05-2019, added new product code VT107295.

V02, 05/07/2021 - Updated to the new template.

V03- minor updates

V04- 062022 supplier update – 27/02/2023