

MIXED TOCOPHEROLS



TOCOMIX 70 R Non GMO Safety Data Sheet

1 IDENTIFICATION OF THE SUBSTANCE

1.1 Product Identification

Synonyms: Natural Mixed Tocopherol

Trade Names: TOCOMIX 70 R Non GMO

1.2 Product Uses

TOCOMIX 70 R Non GMO is used as a natural antioxidant in food and cosmetic industries.

1.3 Company/undertaking Identification

Advanced Organic Materials S.A.

Calle 14, N°507

Parque Industrial Pilar

Buenos Aires - Argentina

1.4 Emergency telephone number:

CHEMTREC: 1-800-424-9300

AOM: +54 230 4496 456

4 FIRST AID MEASURES

1.1 Description of first aid measures

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.

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 anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No specific symptoms known

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

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

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media: Water spray, Carbon Dioxide, Dry Chemical Powder or appropriate

5.2 Special hazards arising from the substance: Not known specific hazards during firefighting

5.3 Advice for firefighters: In the event of fire, wear self-

3 COMPOSITION

Synonyms

d-Tocopherols

(R,R,R,)- α , (R,R,R,)- β , (R,R,R,)- γ , (R,R,R,)- δ - tocopherol

3.1 Substance/Preparation (mixture)

Natural Mixed Tocopherols >70%

Refined Sunflower oil <30%

CAS Number

Tocopherols: 1406-66-2 / 59-02-9 / 148-03-8 / 54-28-4 / 119-13-1

Sunflower oil: 8001-21-6

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment

6.2 Environmental precautions: Try to prevent the material from entering drains or water courses

6.3 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.

6.4 Reference to other sections: For personal protection see section 8. For disposal considerations see section 13.

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7 HANDLING AND STORAGE

7.1 Precautions for safe handling: For personal protection see section 8. Take necessary action to avoid static electricity discharge. Product could burn under fire conditions.

7.2 Conditions for safe storage, including any incompatibilities: 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.

7.3 Specific end use(s): This product may be used in food.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: Contains no substances with occupational exposure limit values.

8.2 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

General Information

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

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.

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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 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.

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, *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 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.

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13 DISPOSAL CONSIDERATIONS

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

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.

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

16 OTHER INFORMATION

SDS prepared by: Advanced Organic Materials S.A. on July 2016

Information Sources: Pubchem: <http://pubchem.ncbi.nlm.nih.gov>

Wikipedia: <https://hi.wikipedia.org>

DailyMed: <http://dailymed.nlm.nih.gov>

FDA Orange Book: <http://www.fda.gov/Drugs/InformationOnDrugs>

FAO/WHO JECFA Database: <http://apps.who.int/food-additives-contaminants-jecfa-database>

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