



SAFETY DATA SHEET

Natural Mixed Tocopherol (Standardized with Sunflower Oil): 50%, 70%

MFS/QA/002

1. IDENTIFICATION OF THE SUBSTANCE

- 1.1 Product Name:** Natural Mixed Tocopherol (Standardized with Sunflower Oil)
- 1.2 HS Code:** 29362800
- 1.3 Application of the substance:** Natural Mixed Tocopherol is used as antioxidant in Food, Nutraceutical, Cosmetic, Personal Care and Feed industry.
- 1.4 Manufacturer / Supplier:**
Matrix Fine Sciences Pvt. Ltd.
D-8, MIDC Paithan – 431148
Dist. Aurangabad, MS, India.
www.matrixfinesciences.com
lab@matrixfinesciences.com
- Emergency Contact Number:** Telephone Number: +91 2431-232901 / 02

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:** Natural Mixed Tocopherol is not assessed as Hazardous substance.
- 2.2 Label Elements:** The product does not need hazard labeling in accordance with EC directives.
- 2.3 Other Hazards:** None. The product is a Food & Nutraceutical ingredient.

3. COMPOSITION

3.1 Substance / Preparation (Mixture)

Mixed Tocopherols (high content in RRR-gamma, delta & beta tocopherols, along with alpha tocopherol)
Molecular Formula: d- γ -Tocopherol (C₂₈H₄₈O₂); d- δ -Tocopherol (C₂₇H₄₆O₂); d- β -Tocopherol (C₂₈H₄₈O₂); d- α -Tocopherol (C₂₉H₅₀O₂)
Molecular weight: d- γ -Tocopherol (416.69); d- δ -Tocopherol (402.66); d- β -Tocopherol (416.69); d- α -Tocopherol (430.71)
Vegetable Oil

3.2 Chemical Characterization: Mixture of phospholipids, Triglycerides and Glycolipids.

3.3 CAS Number: d- γ -Tocopherol (54-28-4); d- δ -Tocopherol (119-13-1); d- β -Tocopherol (16698-35-4); d- α -Tocopherol (59-02-9)

4. FIRST AID MEASURES

- 4.1 After skin and eye contact:** Rinse immediately with plenty of water for at least 15 minutes.
- 4.2 After ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a physician.
- 4.3 Notes to Physician:** Treat symptomatically.

Not classified as a Health hazard, as product is derived from vegetable oil.

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5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media:** Carbon Dioxide, Dry Chemical Powder, Foam and Sand as appropriate.
- 5.2 Explosive Limits in air:** Not Established
- 5.3 Auto-ignition Temperature:** Not Known
- 5.4 Exposure Hazards:** None Known
- 5.5 Advice for Fire Fighters:** Wear self contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions:** Avoid contact with eyes.
- 6.2 Environmental Precautions:** Do not allow to flow into water bodies & drainage systems.
- 6.3 Procedures for Spill/Leak clean up:** Absorb spill on sand or vermiculite, and then placed in a closed container for its disposal. Ventilate area and wash spill site with soap and water after material pickup is complete. Physically clean spill area, dispose off material, and use absorbents if required.
- Note:** Higher risk of slipping.

7. HANDLING AND STORAGE

- 7.1 Precautions for Safe Handling:** No special precautionary measures are necessary.
- 7.2 Conditions for Safe Storage:** Keep in a tightly closed container. Store at ambient temperature and under dry conditions. Keep protected from direct light and heat. Protect from contamination. Keep away from odorous and toxic substances. Maximum 35°C and 70% relative humidity.

8. EXPOSURE CONTROLS AND PROTECTION CONTROL

- 8.1 Exposure Limits:** Not Established.
- 8.2 Respiratory Protection:** Not Required.
- 8.3 Personal Precautions:** Avoid contact with eyes and skin.
- 8.4 Eye Protection:** Use chemical safety goggles and maintain eye wash fountain in work area.
- 8.5 Hand Protection:** No special protection is needed under normal conditions of use. If extended exposure is likely, use cloth, leather or rubber gloves.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical State: Viscous Oil.

Appearance: Yellow to Brownish Red

Odor: Mild Vegetable oil odor

pH (25°C): N/A

Flash Point: >200°C

Specific Gravity: 0.90 – 0.96

Vapour Pressure: N/A

Solubility: Insoluble in water (25°C)

Viscosity: N/A

Explosive Properties (Dust only): N/A

Flammability: N/A

Thermal Decomposition: N/A

10. STABILITY AND REACTIVITY

10.1 Reactivity: No Data Available.

10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: Avoid excessive exposure to light and moisture.

10.5 Shelf life: Minimum of 36 months when stored in unopened in the original packaging at temperature not exceeding 95°F (35°C).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Non-toxic. Substance is used as ingredient in Food, Nutraceutical, Cosmetic & Feed industry.

Acute oral toxicity: LD50 > 5000 mg/kg body weight

Skin irritation: slightly irritating

Eye irritation: slightly irritating

Carcinogenicity: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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12. ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

13. DISPOSAL CONSIDERATIONS

13.1 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.

14. TRANSPORT INFORMATION

This material is NOT dangerous for air, ground or marine transport. No special considerations required.

15. REGULATORY INFORMATION

Mixed Tocopherols is an EU generally permitted food additive according to EC Directive 74/329/EEC and may be used Quantum Satis, unless otherwise stated.

The US Food and Drug Administration classify d- alpha tocopherol as a GRAS (Generally Recognized as Safe) food ingredient under Title 21 CFR 184.1400. Labeling of products using mixed tocopherols should be: mixed tocopherols or mixed tocopherol concentrate.

16. OTHER INFORMATION

Department Issuing MSDS: Quality Control Department.

Contact: +91-2431-232901 / 02

Key literature references and sources for data:

This information has been developed by MFSPL staff from sources considered reliable but has not been independently verified by MFSPL.

This information is provided for documentation purpose only. This product is not considered as Hazardous.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however; all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.

Disclaimer:

Recommendations for use and application of the product are given for information purposes. This information is based on current knowledge and provided without warranty. The information believed to be correct. This information should be used to make an independent determination of the methods to safeguard the workers and the environment. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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