



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0421
PRODUCT NAME ETHYL 4-DECENOATE (TRANS)
SUPPLIER Shanghai M & U International Trade Co., Ltd.
Rm 1717, No 598 North NuJiang Road
200333 Shanghai, China
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sales@mu-intel.com

FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

HMIS Hazard Classifications

HEALTH = 1 FLAMMABILITY = 1 REACTIVITY = 0 PROTECTION = B

Label Precautionary Statements

GHS Classification and Labelling

The following determinations per the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) have been made:

GHS Signal Word

No signal word is required for this material

GHS Symbols

No symbol is required for this material

GHS Labeling/Hazard Statements

No hazard statements are required for this material

GHS Labeling/Precautionary Statements

No precautionary statements are required for this material

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Synonym(S) 4-Decenoic acid, ethyl ester, (4E)-
Ethyl e-4-decenoate
Ethyl trans-4-decenoate
Molecular formula C₁₂ H₂₂ O₂

Additives
CAS No
76649-16-6

synthetic alpha tocopherol @ 0.10%
EC No
278-509-4

4. FIRST-AID GUIDE:

Inhalation Exposure

Remove to fresh air. Give oxygen and call a physician

Eye Contact

Flush with water for 15 min. Seek medical help if necessary

Skin Contact

Wash area well with water. Seek medical help if necessary

Ingestion

Administer water and call a physician or poison control center immediately. Do not induce vomiting

5. FIRE-FIGHTING GUIDE:

Extinguishing Media

CO₂, FOAM, DRY CHEMICAL

Special Fire Fighting Procedures

Use standard fire fighting procedures

Unusual Fire and Explosion Hazards

None

6. ACCIDENTAL RELEASE GUIDE:

Steps To Be Taken If Material Is Released Or Spilled

Standard absorbents can be used

Waste Disposal Method

Incineration or sanitary landfill in accordance with local, state, and federal regulations

7. HANDLING AND STORAGE:

Handling

Observe all warnings and precautions listed for the product. Use in accordance with good manufacturing and industrial hygiene practices. Use product in a properly ventilated work area. Do not eat, drink or smoke while handling product

Storage

Packaging: Glass, Plastic, Aluminum or Phenolic Lined Steel Store tightly sealed under inert gas in a cool, well-ventilated area

Fire Protection

Keep away from heat, sparks, and open flame

8. EXPOSURE AND PERSONAL PROTECTION:

Ventilation

Local exhaust preferred. General ventilation required

Respiratory

Usually not required; avoid inhaling concentrated vapors

Skin

Avoid skin contact. Use chemical resistant gloves

Eyes

Splash-proof safety glasses or goggles

Other Protective Equipment

Safety shower, eye wash

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State	liquid
Appearance	colorless liquid
Odor Description	waxy, leathery, fruity pear note
Boiling Point	253.11 C (EPI 4.0)
Vapor Pressure	0.0145 mmHg (20C, EPI 4.0)
Vapor Density (Air = 1)	> 1
Specific Gravity @ 25C (water = 1)	0.8710:0.8810
Solubility in Water	Insoluble in water; soluble in alcohol
Flash Point (CC)	230 F 110 C
Logp	4.790

10. STABILITY AND REACTIVITY:

Incompatibilities

Conditions to Avoid

Presents no special reactivity hazard

Materials to Avoid

Strong oxidizing agents

Hazardous Combustion Products

CO, CO₂, water

11. TOXICOLOGICAL INFORMATION:

Acute Effects

Most likely route of entry is through the skin. Full strength may be irritating to skin and eyes

Irritation Data

20% in petrolatum produced no irritation or sensitization in humans. Result for similar Methyl 2-nonenoate

Toxicity Data

LD50 Dermal (rabbit) > 5 g/kg; Result for similar material Methyl 2-nonenoate.

LD50 Oral (rat) > 5 g/kg; Result for similar material Methyl 3-nonenoate.

S. typhimurium strains TA1535, TA1537, TA98, TA100, TA102 Plate incorporation method w/ & w/o S9: Test mat'l is non-mutagenic. Vehicle DMSO. Result for similar Methyl 2-nonenoate

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Threshold Limit Value (TLV)

Not established

OSHA Permissible Exposure Limit (PEL)

Not established

Listed as carcinogen by NTP, IARC, OR OSHA?

NO

12. ECOLOGICAL INFORMATION:

General

Prevent contamination of soil, ground- and surface water

Ecotoxic Effects

Acute toxicity Freshwater fish: 5 ppm no effects. Trout, Bluegill sunfish, and goldfish tested. For similar Methyl 10-Undecenoate

13. DISPOSAL RECOMMENDATIONS:

Waste Disposal Method

Incineration or sanitary landfill in accordance with local, state, and federal regulations

14. TRANSPORTATION INFORMATION:

DOT

NON-REGULATED

IMDG (OCEAN)
NON-REGULATED

IATA (AIR)
NON-REGULATED

15. REGULATORY INFORMATION:

Reviews, Standards, and Regulations

This chemical is listed on the following inventories

TSCA AICS CHINA DSL ECL EINECS (278-509-4)

LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA? NO

16. OTHER INFORMATION:

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