

VITAMIN E TOCOPHEROL

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: vitamin E tocopherol
INCI Name: tocopherol
Chemical Name: d-alpha (all-rac-alpha) tocopherol
CAS Number: 59-02-9
EINECS Number: 200-412-2

2. PHYSICAL & CHEMICAL PROPERTIES

Specific Gravity, H₂O= 1: 0.98 g/ml
Melting Point: 26°C (79°F)
Boiling Point: 200°C (392°F)
Evaporation Rate: estimated slower than ethyl ether
Solubility in Water: water-insoluble, soluble in alcohol,
miscible with ether or acetone
Appearance & Odor: clear, viscous, brown liquid with faint odor

3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions
Incompatibility: may react with strong oxidizing agents and strong alkalis
Hazardous Decomposition: carbon dioxide, carbon monoxide
Hazardous Polymerisation: will not occur

4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: If vapors or mists are generated, wear a NIOSH approved organic vapor/mist respirator.
Protective Clothing: Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact.
Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

7. HAZARDS IDENTIFICATION

General: low hazard for industrial and commercial handling
Inhalation: No hazards known

Eye Contact: May cause irritation. Irrigate eye with water for at least 15 to 20 minutes. Seek medical attention if symptoms persist.
Skin Contact: No hazards known
Ingestion: No hazards known

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. If irritation persists get medical attention.
Skin: Wash exposed areas of the body with soap and water.
Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. seek medical attention if symptoms persist.
Ingestion: Give large quantities of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

9. FIRE FIGHTING MEASURES

Flash Point: 93°C (199°F)
Flammability Limits: None known
Extinguishing Media: Dry chemical, foam, carbon dioxide, water spray. Water stream may splash burning liquid and spread fire.
Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

10. TOXICOLOGICAL INFORMATION

Carcinogenicity: None known
LD50 Value: Not reported

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

12. TRANSPORT INFORMATION

DOT Proper Shipping Name: refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

ALL DATA HEREIN ARE ALL AS PER OUR SUPPLIER.