

MATERIAL SAFETY DATA SHEET
ACCORDING TO EC LEGISLATION 91/155/E EC

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1. Identification:

Commercial name: Vitamin E
Botanical Nomenclature:
INCI name: *Tocopherol*
CAS number: 59-02-9
EINECS CAS number: 200-412-2
EEC Number: *Not available*

2. Composition:

Main components:
Additives (e.g. carriers, preservatives, antioxidants): *Nil*

3. Potential Health Hazards:

Inhalation: *Observe good housekeeping procedure*
Skin: *Observe good housekeeping procedure*
Eyes: *Observe good housekeeping procedure*
Ingestion: *Observe good housekeeping procedure*

4. First aid:

Inhalation: *Bring immediately to fresh air, consult physician if discomfort persists.*
Skin: *Remove contaminated clothing. Wash affected area with mild soap and water (not solvent). Seek medical advice if irritation persists.*
Eyes: *Flush with plenty of water for 15 minutes, open eye lids forcibly. Seek medical advice if irritation persists.*
Ingestion: *Rinse mouth with water, seek medical advice immediately.*

5. In case of fire:

Extinguishing media: *Foam, powder, carbon dioxide*
Do not use: *Water (only experienced personnel and fire fighters can use a water spray)*
Special precautions: *Wear breathing apparatus*

6. Spill and Leak Procedure:

Individual precautions: *Avoid contact with skin, eyes and clothes. All spillages can cause a slipping hazard.*
Environmental protection: *Dispose in landfill in accordance with local state, and federal regulations.*
Cleaning methods: *If small spill, absorb on paper or other absorbent material. If large spill pump into salvage tank. Wash thoroughly with detergent and water.*

7. Handling and storage:

Store in a cool, dry and dark place in suitable containers (aluminium cans or lacquer lined steel drums).
Handle in a well ventilated area.
Keep away from sources of heat and ignition.
dI- α -tocopherol is a combustible oil.

8. Personal Protection / Exposure control:

Respiratory protection: *Face masks recommended*
Skin protection: *Rubber or plastic gloves should be worn*
Eye protection: *Safety glasses or safety goggles should be worn*
General precautions: *Use good industrial hygiene practise.*

9. Physiochemical properties:

Appearance: *Yellow/yellow-brown viscous oil*
Odour: *almost odourless*
pH: *Not available*
Boiling point: *235C*
Flash point: *240C*
Autoignition Temperature: *340C*
Explosion Limits: *Not available*
Vapour pressure (25°C): *Not available*
Vapour Density: *Not available*
Specific Gravity (25°C): *Not available*
Optical Rotation (20°C): *Not available*
Refractive Index (20°C): *Not available*
Solubility in water (20°): *insoluble*
Partition Coefficient log P o/w: *Not available*
Evaporation rate: *Not available*

10. Stability and Reactivity:

Chemical Stability: *Protect from humidity, light, and heat for quality reasons.*
Conditions to avoid: *Peroxides, rancid oils and fats, ferric and silver salts, atmospheric oxygen and all oxidising agents.*
Hazardous Decomposition Products: *Not available*

11. Toxicological Information:

Pure vitamin E generally considered as safe for human consumption.
According to RIFM- Monograph:
Acute Toxicity: *Oral LD₅₀: >5,000mg/kg in rats*
Dermal LD₅₀: >16,000mg/kg in rabbits
Irritation: *No eye irritation (rabbit), not skin irritation (rabbit). Oxidation products irritate skin. Prolonged and intensive skin contact may lead to erythema and contact dermatitis.*
Sensitisation: *Not sensitising (guinea pig)*
Phototoxicity: *Not available*

12. Ecotoxicological information:

Not readily biodegradable.
Fish Toxicity: LCO/EC₅₀: (96hrs) *>10mg/litre*
Bacteriotocity: ECO/EC₅₀: *Not available.*

13. Disposal Method:

Check Federal, State and Local Regulations.

14. Transport Information:

Non-hazardous material transport in suitable containers.

15. Regulatory Information

The British Essential Oil Association Chip Regulations – 2002

Hazard Symbols: -----
Risk Phrases: -----
H/C %: -----
Safety Phrases: -----

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FOR AND ON BEHALF OF PHOENIX NATURAL PRODUCTS:

J.S. CHANA..... (MANAGING DIRECTOR)

DATE:.....