

MATERIAL SAFETY DATA SHEET

ZHEJIANG NHU CO. LTD

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State: ZHEJIANG PROVINCE DRC.

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I、PRODUCT INFORMATION

Chemical name: 2,5,7,8-Tetramethyl-2-(4,8,12,trimethyltridecyl)-6-chromanol acetate

Cas no. 7695-91-2

Formula $C_{31}H_{52}O_3$

Synonyms Vitamin E acetate, di-alpha-tocopheryl acetate

Chemical family E vitamin

Molecular weight 472.8

II、PHYSICAL PROPERTIES

Sources: CESA

Appearance and odor: Clear, yellow viscous oil, nearly odorless

Boiling point,0.2mmHg: 224°C, 217°C at 0.4 mmHg

Specific gravity (H₂O=1): 0.950~955 at 20°C

Soluble in: Alcohol, miscible in ether, alcohol, acetone and vegetable oils

Freezing point: -27.5 °C (approximately)

Vapor pressure at 146.5°C: 0.02 mmHg

Solubility in water: Insoluble at 20°C

Refractive index: 1.4940~1.4985 at 20°C

III、CHEMICAL PROPERTIES

Sources: Re 75, RRO

Stability: Stable

Condition to avoid: Relatively stable towards strong acids and heat and is unaffected by the oxidizing influence of air, light and ultraviolet light. It is hydrolyzed by moisture in the presence of alkalis or strong acids to free alpha-tocopherol which is then rapidly oxidized by air.

Materials to avoid: Alkalis, oxidizing materials.

Hazardous decomposition products: None/oxidized material might be irritating to skin.

Hazardous polymerization: Will not occur.

IV、HAZARDOUS INGREDIENTS

Sources: CESA

Not applicable

V、FIRE AND EXPLOSION HAZARD:

Sources: CESA

None known

Extinguishing media: Water spray, dry chemical, carbon dioxide or foam, as appropriate for

surrounding fire and materials.

Fire fighting procedures: Evacuate personnel to an area of upwind direction and remove unneeded materials, keep fire-exposed containers cool with water spray, and provide fire fighters with self-contained breathing equipment.

VI、HEALTH HAZARDS Sources: CESA

Threshold limit values: TWA: None established.
STEL: None established.

Toxicity:

Industrial exposure: Excessive oral intake will cause fatigue, weakness and nausea, all of which will cease upon withdrawal from vitamin E intake.

Primary routes of exposure: ingestion, inhalation(of mist), skin contact.

Experimental: LD50(mouse, oral) > 49.73 g/kg

VII、SAFETY MEASURES AND EQUIPMENT Sources: CESA

Ventilation: Mechanical acceptable

Respiratory: Not needed

Eyes: Safety glasses

Gloves: Rubber

Other directives: Precautionary label: Vitamin E acetate
High-dose ingestion may affect CNS and
GI tract may cause skin irritation

Storage and handling conditions: Store in tight, light-resistant containers under an inert gas(at 15-30°C). Substance is stable at room temperature when stored in glass or aluminum. Avoid rubber.

VIII、SPILL CONTROL, WASTE TREATMENT&DISPOSAL

Spill control: Wipe small spills with suitable adsorbents, dike larger spills and transfer to labeled containers.

Waste Treatment and Disposal: Transport soiled adsorbents to an approved incinerator, Recycle bulk material.

IX、REGULATIONS Sources: CESA

DOT: Not regulated

EPA: Not regulated

OSHA: Hazard Class: Health hazard: irritant

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END OF DATA SHEET