

1. IDENTIFICATION

Product Name Vitamin E Synthetic

Other Names 3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol; all-rac-a-Tocopherol

Uses Food additives, cosmetic ingredient, nutrient.

Chemical Family No Data Available

Chemical Formula C29H50O2

 Chemical Name
 DL-alpha-Tocopherol

 Product Description
 No Data Available

Contact Details of the Supplier of this Safety Data Sheet

 Organisation
 Location
 Telephone

 Redox Ltd
 2 Swettenham Road
 +61-2-97333000

Minto NSW 2566 Australia

Redox Ltd 11 Mayo Road +64-9-2506222

Wiri Auckland 2104 New Zealand

Redox Inc. 3960 Paramount Boulevard +1-424-675-3200

Suite 107

Lakewood CA 90712

USA

Redox Chemicals Sdn Bhd Suite 13A.03, Menara Summit +60-3-5614-2111

Persiaran Kewajipan USJ1 47600 UEP Subang Jaya Selangor, Malaysia

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

OrganisationLocationTelephonePoisons Information CentreAustralia – Westmead NSW1800-251525
131126ChemcallAustralia1800-127406
+64-4-9179888ChemcallMalaysia+64-4-9179888

National Poison Centre Malaysia +60-4-6536-999

Chemcall New Zealand 0800-243622 +64-4-9179888

National Poisons Centre New Zealand 0800-764766

CHEMTREC USA & Canada 1-800-424-9300 CN723420

+1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled



Globally Harmonised System

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Hazard Categories Sensitisation (Skin) - Category 1B

Pictograms



Signal Word Warning

Hazard Statements H317 May cause an allergic skin reaction.

 Precautionary Statements
 Prevention
 P261
 Avoid breathing mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal P501 Dispose of contents/container in accordance with local / regional / national /

international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications Health Hazards **6.5B** Substances that are contact sensitisers

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
DL-alpha-Tocopherol	C29H50O2	10191-41-0	>=96 - 100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth with water. Get medical advice/attention if you feel unwell. Never give anything by mouth

to an unconscious person.

IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting Eye

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation

or rash occurs, get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms Inhaled

persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is

difficult.

Advice to Doctor Treat symptomatically.

Medical Conditions Aggravated by May cause an allergic skin reaction.

Exposure

5. FIRE FIGHTING MEASURES

General Measures Move containers from fire area if you can do it without risk. Cool containers with water spray until well after fire is out.

Flammability Conditions May burn but does not ignite readily.

Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide (CO2) for extinction.

Fire and Explosion Hazard Containers may explode when heated.

Hazardous Products of Fire may produce irritating and/or toxic gases, including Carbon oxides.

Combustion

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may cause pollution.

Personal Protective Equipment Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

Approx. 260 °C [Closed cup] **Flash Point**

Lower Explosion Limit No Data Available **Upper Explosion Limit** No Data Available

Auto Ignition Temperature 420 °C

Hazchem Code No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid breathing vapours and contact with

eyes, skin and clothing.

Pick up with sand or other non-combustible absorbent material and place into containers for later disposal (see SECTION **Clean Up Procedures**

Containment Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.

Decontamination No information available.

Environmental Precautionary

Measures

Prevent entry into drains and waterways.

Evacuation Criteria Immediately isolate spill or leak area. Evacuate personnel to safe areas. Keep unauthorised personnel away.

7. HANDLING AND STORAGE

Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure Handling

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

mist/vapours and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Keep away from heat and sources of ignition - No smoking. Take measures to prevent the build up of

electrostatic charge.

Storage Store in a cool, dry and well-ventilated place, protected from light. Keep container tightly closed. Once opened, use

contents quickly. Protect from moisture. Keep away from heat and sources of ignition - No smoking. Keep away from

incompatible materials (see SECTION 10).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product.

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust

ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing

dispersion of it into the general work area.

Personal Protection Equipment - Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: For nuisance

exposures use type OV/AG (US) or type ABEK (EU) respirator cartridges. Use respirators and components tested and

approved under appropriate government standards (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Use equipment for eye protection tested and

approved under appropriate government standards.

- Hand protection: Wear protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use.

Wash and dry hands.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Impervious

clothing.

Special Hazards Precaustions

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Appearance Viscous oily liquid

Odour Odourless

Colour Slightly yellow to amber

No Data Available pН **Vapour Pressure** No Data Available **Relative Vapour Density** No Data Available **Boiling Point** No Data Available **Melting Point** 2.5 - 3.5 °C

Freezing Point No Data Available

Solubility Soluble in acetone, anhydrous ethanol, methylene chloride and fatty oils - Practically insoluble in water

Specific Gravity

Flash Point Approx. 260 °C [Closed cup]

420 °C **Auto Ignition Temp**

Evaporation Rate No Data Available **Bulk Density** No Data Available

Corrosion Rate No Data Available

>300 °C **Decomposition Temperature**

0.95 g/cm3 Density **Specific Heat** No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** log Pow: >6 (25°C) **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available Vapour Temperature No Data Available Viscosity 4,200 mPa*s (@ 20 °C) **Volatile Percent** No Data Available **VOC Volume** No Data Available

Additional Characteristics No information available.

Potential for Dust Explosion Not applicable.

Fast or Intensely Burning

Characteristics

No information available.

Flame Propagation or Burning

Rate of Solid Materials

No information available.

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a

Fire

Properties That May Initiate or

Contribute to Fire Intensity

Reactions That Release Gases or

Vapours

Release of Invisible Flammable

Vapours and Gases

May burn but does not ignite readily.

Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides.

No information available.

10. STABILITY AND REACTIVITY

General Information No dangerous reactions known.

Chemical Stability Material is stable under normal conditions. **Conditions to Avoid** Avoid strong heating. Avoid exposure to light. **Materials to Avoid** Incompatible/reactive with strong oxidising agents.

Hazardous Decomposition

Products

Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides.

Hazardous Polymerisation No information available.

11. TOXICOLOGICAL INFORMATION

General Information

- Acute toxicity: No relevant information available.
- Skin corrosion/irritation: Slightly irritating to the skin (Rabbit) [OECD Guideline 404].
- Eye damage/irritation: Not irritating to the eyes (Rabbit) [OECD Guideline 405].
- Respiratory/skin sensitisation: May cause an allergic skin reaction. D,L-alpha-tocopherol is considered a weak to moderate skin sensitiser in animal models as tested in a Guinea Pig Maximisation Test, according to OECD Guideline 406 and a Local Lymph Node Assay according to OECD Guideline 429 [ECHA].

- Germ cell mutagenicity: D,L-alpha tocopherol is considered to be non-genotoxic [ECHA].
- Carcinogenicity: No relevant information available.
- Reproductive toxicity: No relevant information available.
- STOT (single exposure): No relevant information available.
 STOT (repeated exposure): No relevant information available.
- Aspiration toxicity: No relevant information available.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: >4,000 mg/kg [Supplier's SDS].

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity No information available.

Persistence/Degradability The substance is inherently biodegradable [ECHA].

Mobility No information available.

Environmental Fate No known significant effects or critical hazards.

Bioaccumulation Potential As the substance is poorly soluble in water, it will not be significantly bioavailable and no significant exposure of aquatic

organisms is expected [ECHA].

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of contents/container in accordance with local/regional/national regulations.

Special Precautions for Land Fill Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after

container is emptied.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name Vitamin E Synthetic

Class C2 Combustible Liquids - Flash Point >93°C, Closed Cup, Not Excluded Flammable

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping NameVitamin E SyntheticClassNo Data AvailableSubsidiary Risk(s)No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name

Class

No Data Available

Subsidiary Risk(s)

No Data Available

No Data Available

No Data Available

UN Number

No Data Available

Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping Name

Class

No Data Available

Subsidiary Risk(s)

No Data Available

No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name Vitamin E Synthetic Class No Data Available Subsidiary Risk(s) No Data Available **UN Number** No Data Available Hazchem No Data Available **Pack Group** No Data Available **Special Provision** No Data Available **EMS** No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping Name

Class

No Data Available

Subsidiary Risk(s)

No Data Available

UN Number

No Data Available

Hazchem

No Data Available

Pack Group

No Data Available

Special Provision

No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information No Data Available
Poisons Schedule (Aust) Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR002503

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) 233-466-0

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (List of Classified Substances) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Taiwan (TCSI) Not Determined

USA (TSCA) Listed

Mexico (INSQ) Not Determined

16. OTHER INFORMATION

Related Product Codes VITEES1200, VITEES1300, VITEES1320

Revision

01 Jan 2023 **Revision Date** Reason for Issue updated sds Key/Legend < Less Than > Greater Than

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square Centimetres CO2 Carbon Dioxide

COD Chemical Oxygen Demand deg C (°C) Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism **IDLH** Immediately Dangerous to Life and Health immiscible Liquids are insoluable in each other.

inHg Inch of Mercury inH20 Inch of Water

K Kelvin kg Kilogram

kg/m³ Kilograms per Cubic Metre

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre m³ Cubic Metre mbar Millibar mg Milligram

mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water mPa.s Millipascals per Second N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health **NOHSC** National Occupational Heath and Safety Commission **OECD** Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion ppm Parts per Million

ppm/2h Parts per Million per 2 Hours ppm/6h Parts per Million per 6 Hours psi Pounds per Square Inch R Rankine RCP Reciprocal Calculation Procedure STEL Short Term Exposure Limit TLV Threshold Limit Value tne Tonne TWA Time Weighted Average ug/24H Micrograms per 24 Hours UN United Nations wt Weight