

# Chemical Safety Data Sheet MSDS / SDS

 $[2R*(4R*,8R*)]-(\pm)-3,4$ -dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol SDS

Revision Date: 2024-04-25 Revision Number: 1

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

Product name: [2R\*(4R\*,8R\*)]-(±)-3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-

benzopyran-6-ol

CAS: 2074-53-5

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified For R&D use only. Not for medicinal, household or other use.

uses:

Uses advised none

against:

## Company Identification

Company: Chemicalbook.in

Address: 5 vasavi Layout Basaveswara Nilayam Pragathi Nagar Hyderabad, India -500090

Telephone: +91 9550333722

## **SECTION 2: Hazards identification**

### Classification of the substance or mixture

Skin sensitization, Sub-category 1B

## GHS label elements, including precautionary statements

Pictogram(s)

**(** 

Signal word

Warning

### Hazard statement(s)

H317 May cause an allergic skin reaction

## Precautionary statement(s)

#### Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

## Response

P302+P352 IF ON SKIN: Wash with plenty of water/...

P333+P317 If skin irritation or rash occurs: Get medical help.

P321 Specific treatment (see ... on this label).

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

### Storage

none

## Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### Other hazards which do not result in classification

no data available

## **SECTION 3: Composition/information on ingredients**

#### Substance

Chemical name:  $[2R^*(4R^*,8R^*)]-(\pm)-3,4$ -dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-

benzopyran-6-ol

Common names and

 $[2R*(4R*,8R*)]-(\pm)-3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-$ 

synonyms:

benzopyran-6-ol

CAS number: 2074-53-5 EC number: 218-197-9

Concentration: 100%

#### **SECTION 4: First aid measures**

### Description of necessary first-aid measures

#### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

## Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

## Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

### Most important symptoms/effects, acute and delayed

no data available

## Indication of immediate medical attention and special treatment needed, if necessary

Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration.

Keep patient quiet and maintain normal body temperature. Obtain medical attention. Poisons A and B

## **SECTION 5: Firefighting measures**

### Suitable extinguishing media

Wear self contained breathing apparatus for fire fighting if necessary.

### Specific hazards arising from the chemical

no data available

## Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

## **Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

## Methods and materials for containment and cleaning up

ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures: Avoid breathing vapors, mist or gas. Environmental precautions: Do not let product enter drains. Keep in suitable, closed containers for disposal.

## **SECTION 7: Handling and storage**

## Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

## Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 deg C.

## SECTION 8: Exposure controls/personal protection

#### Control parameters

## Occupational Exposure limit values

no data available

## Biological limit values

no data available

## Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

## Individual protection measures, such as personal protective equipment (PPE)

## Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

## Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

# SECTION 9: Physical and chemical properties and safety characteristics

Physical state: Slightly yellow to amber, nearly odourless, clear, viscous oil which oxidises and darkens on

exposure to air or light

Colour: Pale yellow oil

Odour: Little or no odor

Melting 3°C

point/freezing

point:

Boiling point or 485.9°C at 760 mmHg

initial boiling point and boiling range:

Flammability: no data available

Lower and upper

explosion

limit/flammability

limit:

Flash point: 210.2°C

Auto-ignition no data available

temperature:

**Decomposition** no data available

temperature:

pH: no data available

Kinematic no data available

viscosity:

Solubility: Insoluble in water, but water-dispersible.

no data available

Partition no data available

coefficient noctanol/water:

Vapour pressure: 4.59E-10mmHg at 25°C

Density and/or

0.93 g/cm3

relative density:

Relative vapour

no data available

density:

Particle no data available

characteristics:

## **SECTION 10: Stability and reactivity**

## Reactivity

no data available

## Chemical stability

Unstable to UV light, alkalies, and oxidation. Tocopherol

## Possibility of hazardous reactions

no data available

#### Conditions to avoid

no data available

## Incompatible materials

Strong oxidizing agents

## Hazardous decomposition products

Carbon oxides

# **SECTION 11: Toxicological information**

## Acute toxicity

Oral: LD50 Rats oral >7000 mg/kg b.w. d-alpha-tocopheryl succinate

Inhalation: no data available Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

## **SECTION 12: Ecological information**

## **Toxicity**

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

## Persistence and degradability

PURE CULTURE: Vitamin E was biodegraded by aerobic bacterial communities (genera Idiomarina and Bacillus), isolated from marine sediment and microbial mat sample(1); biodegradation appeared to involve an initial omega-oxidation of the isoprenoid side chain and subsequent beta-oxidation, affording 2,5,7,8-tetramethyl-2(2'-carboxyethyl)-6-hydroxychroman(1).

## Bioaccumulative potential

An estimated BCF of 39 was calculated in fish for vitamin E(SRC), using an estimated log Kow of 12.2(1) and a regression-derived equation(1). According to a classification scheme(2), this BCF suggests the potential for bioconcentration in aquatic organisms is moderate(SRC), provided the compound is not metabolized by the organism(SRC).

## Mobility in soil

Using a structure estimation method based on molecular connectivity indices(1), the Koc of vitamin E can be estimated to be 2.5X10+7(SRC). According to a classification scheme(2), this estimated Koc value suggests that vitamin E is expected to be immobile in soil.

#### Other adverse effects

no data available

## **SECTION 13: Disposal considerations**

## Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

## Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## **SECTION 14: Transport information**

#### **UN Number**

ADR/RID: no data available IMDG: no data available IATA: no data available

## **UN Proper Shipping Name**

ADR/RID: no data available IMDG: no data available IATA: no data available

## Transport hazard class(es)

ADR/RID: no data available IMDG: no data available IATA: no data available

## Packing group, if applicable

ADR/RID: no data available IMDG: no data available IATA: no data available

#### Environmental hazards

ADR/RID: No IMDG: No IATA: No

## Special precautions for user

no data available

## Transport in bulk according to IMO instruments

no data available

## **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS)

Listed.

**EC Inventory** 

Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Not Listed.

China Catalog of Hazardous chemicals 2015

Not Listed.

New Zealand Inventory of Chemicals (NZIoC)

Listed.

(PICCS)

Listed.

Vietnam National Chemical Inventory

Listed.

IECSC)

Listed.

Korea Existing Chemicals List (KECL)

Not Listed.

#### **SECTION 16: Other information**

#### Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website:

http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the

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