

## SAFETY DATA SHEET

Version 6.3 Revision Date 25.02.2021 Print Date 05.02.2022

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

### 1.1 Product identifiers

Product name :  $(\pm)$ -a-Tocopherol

Product Number : T3251
Brand : Sigma
CAS-No. : 10191-41-0

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

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : MilliporeSigma Canada Ltd

2149 WINSTON PARK DRIVE

OAKVILLE ON L6H 6J8

CANADA

Telephone : +1 905 829-9500 Fax : +1 905 829-9292

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC

(International)

24 Hours/day; 7 Days/week

### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

Skin sensitization (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

(!)

Signal word Warning

Hazard statement(s)

H317 May cause an allergic skin reaction.

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Precautionary statement(s)

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

P272 Contaminated work clothing should not be allowed out of the

workplace.

P280 Wear protective gloves.

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

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/ container to an approved waste disposal

plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

- none

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

### 3.1 Substances

Synonyms : Vitamin E

DL-all-rac-a-Tocopherol

Formula :  $C_{29}H_{50}O_2$ Molecular weight : 430.71 g/mol CAS-No. : 10191-41-0 EC-No. : 233-466-0

Component	Classification	Concentration *
DL-a-Tocopherol		
	Skin Sens. 1; H317	<= 100 %
* Weight %		

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

## 4.1 Description of first-aid measures

## **General advice**

Show this material safety data sheet to the doctor in attendance.

## If inhaled

After inhalation: fresh air.

### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

## Suitable extinguishing media

Carbon dioxide (CO2) Foam Dry powder

## Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

### **5.3** Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

## 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

For disposal see section 13.

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

### 7.1 Precautions for safe handling

For precautions see section 2.2.

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### 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Tightly closed.

### Storage stability

Recommended storage temperature

2 - 8 °C

Storage class (TRGS 510): 10: Combustible liquids

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

## 8.2 Exposure controls

## **Appropriate engineering controls**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

## Personal protective equipment

### **Eve/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

## Skin protection

Handle with 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 in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

protective clothing



### Respiratory protection

required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

### **Control of environmental exposure**

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

a) Appearance Form: viscous

Color: light yellow

b) Odor odorless

No data available c) Odor Threshold No data available d) pH

e) Melting Melting point: 2.5 - 3.5 °C (36.5 - 38.3 °F) point/freezing point

Initial boiling point

208 - 210 °C 406 - 410 °F at 0.0266 hPa and boiling range

No data available g) Flash point h) Evaporation rate No data available Flammability (solid, No data available i)

gas)

Upper/lower No data available j) flammability or explosive limits

k) Vapor pressure 13 hPa at 155 °C (311 °F)

I) Vapor density No data available 0.95 at 25 °C (77 °F) m) Relative density

0.00001 g/l at 20 °C (68 °F) - OECD Test Guideline 105 n) Water solubility o) Partition coefficient: log Pow: > 6 - (External MSDS), Potential bioaccumulation

n-octanol/water

p) Autoignition No data available temperature

q) Decomposition > 300 °C (> 572 °F) temperature

Viscosity No data available No data available s) Explosive properties Oxidizing properties No data available

#### 9.2 Other safety information

No data available



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

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) . Exposure to light.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Exposure to air. no information available

## 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - Rat - male and female - > 4,000 mg/kg (OECD Test Guideline 401)
Inhalation: No data available
LD50 Dermal - Rat - male and female - > 3,000 mg/kg (OECD Test Guideline 402)
No data available

# Skin corrosion/irritation

Skin - Rabbit

Result: slight irritation (OECD Test Guideline 404)

## Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

### Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: positive

(OECD Test Guideline 429)

### Germ cell mutagenicity

No data available

Mutagenicity (mammal cell test): chromosome aberration.

Chinese hamster lung cells

Result: negative

Remarks: (ECHA) Ames test



S. typhimurium Result: negative

Mutagenicity (mammal cell test): chromosome aberration.

Human lymphocytes Result: negative

OECD Test Guideline 474 Mouse - male - Bone marrow

### Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

## **Reproductive toxicity**

No data available

## Specific target organ toxicity - single exposure

No data available

## Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

No data available

### 11.2 Additional Information

RTECS: GA8746000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l

- 96 h

(OECD Test Guideline 203)

Toxicity to daphnia

static test EC50 - Daphnia magna (Water flea) - > 23.53 mg/l - 48 h

and other aquatic invertebrates

(OECD Test Guideline 202)

Toxicity to algae

static test ErC50 - Pseudokirchneriella subcapitata (green algae) - >

25.8 mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria

static test EC20 - activated sludge - > 927 mg/l - 30 min

(DIN/EN ISO 8192)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 20 % - Not readily biodegradable.

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### (OECD Test Guideline 301F)

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

Discharge into the environment must be avoided.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

### **Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

## **SECTION 14: Transport information**

### TDG

Not regulated as a dangerous good

### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods

### **Further information**

Not classified as dangerous in the meaning of transport regulations.

## **SECTION 15: Regulatory information**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

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

## **Further information**

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 properties of

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