



Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:Product name: DL- α -Tocopherol

Product code(SDS NO): 7893E-1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka 540-0029, JAPAN

Division: Safety Management Dept. of Chemicals

Telephone number: +81-6-6946-8061

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2. Hazards identification

GHS classification and label elements of the product**Classification of the substance or mixture**

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

3. Composition/information on ingredients

Mixture/Substance selection:**Substance**Ingredient name: DL- α -Tocopherol

Content(%): 96(min)

Chemical formula: C₂₉H₅₀O₂

Chemicals No, Japan: 9-864

CAS No.: 10191-41-0

MW: 430.71

ECNO: 233-466-0

Note : The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.



5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

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

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

Collect spillage.

7. Handling and storage

Precautions for safe handling

Preventive measures

(Protective measures against fire and explosion)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Exhaust/ventilator

Exhaust/ventilator should be available.

Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures/Incompatibility

Wear protective gloves, protective clothing or face protection.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Keep container tightly closed.

chilled storage.



8. Exposure controls/personal protection

Exposure controls

Appropriate engineering controls

- Do not use in areas without adequate ventilation.
- Eye wash station should be available.
- Washing facilities should be available.

Individual protection measures

Respiratory protection

- Wear respiratory protection.

Hand protection

- Wear protective gloves.

Eye protection

- Wear eye/face protection.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties

- Appearance: Liquid
- Color: Yellow~Red-brown
- Odor: Odorless

Phase change temperature

- Initial Boiling Point/Boiling point: 200~220°C(13.3Pa)
- Melting point/Freezing point: 2.5°C
- Decomposition temperature data N.A.
- Flash point: (DL- α -Tocopherol)264°C
- Auto-ignition temperature: 283°C
- Explosive properties data N.A.
- Vapor pressure data N.A.
- Vapor density data N.A.
- Specific gravity/Density: 0.95

Solubility

- Solubility in water: Insoluble
- n-Octanol /water partition coefficient: $\log P_{ow} \geq 4.0$

10. Stability and Reactivity

Chemical stability

- Stable under normal storage/handling conditions.

Conditions to avoid

- Contact with incompatible materials.
- Contact with fire source.

Incompatible materials

- Oxidizing agents

Hazardous decomposition products

- Carbon oxides

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

- [Company proprietary data]



(DL- α -Tocopherol)

rat LD50 > 5 g/kg

- No Irritant properties data available
- No Allergenic and sensitizing effects data available
- No Mutagenic effects data available
- No Carcinogenic effects data available
- No Teratogenic effects data available
- No reproductive toxicity data available
- No STOT-single/repeated exposure data available
- No Aspiration hazard data available

12. Ecological Information

- Ecotoxicity
 - No Aquatic toxicity data available
 - No Persistence and degradability data available
 - No Bioaccumulative potential data available
 - No Mobility in soil data available
 - Ozone depleting chemical data not available

13. Disposal considerations

- Waste treatment methods
 - Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

- Not applicable to UN NO.

15. Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- US major regulations
 - TSCA
 - DL- α -Tocopherol
- Other regulatory information
 - Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

- The product is not applicable to GHS classifications.
- Reference Book
 - Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)
 - 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
 - 2017 TLVs and BEIs. (ACGIH)
 - <http://monographs.iarc.fr/ENG/Classification/index.php>
 - Supplier's data/information
 - Hazard Communication Standard – 2012
- General Disclaimer
 - This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we



assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2016).