

# **SAFETY DATA SHEET**

Revision Date 04-May-2022 Revision Number 5

1. Identification

Product Name D(+)-Camphoric acid

Cat No.: AC108200000; AC108200050; AC108201000; AC108205000

CAS No 124-83-4 Synonyms None

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

## Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

## Label Elements

None required

### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Revision Date 04-May-2022

D(+)-Camphoric acid

| Component  | CAS No   | Weight % |  |
|--|----------|----------|--|
| 1,3-Cyclopentanedicarboxylic acid, 1,2,2-trimethyl-, | 124-83-4 | <=100    |  |
| (1R-cis)-  |          |          |  |

## 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms and

effects

Notes to Physician

None reasonably foreseeable.

Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available

Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

## **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO2).

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

HealthFlammabilityInstabilityPhysical hazards00N/A

### Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation.

**Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Up

7. Handling and storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid Handling

contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible

Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure **Exposure Guidelines** 

limitsestablished by the region specific regulatory bodies.

**Engineering Measures** None under normal use conditions.

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

9. Physical and chemical properties

Powder Solid **Physical State Appearance** White Odor Odorless

**Odor Threshold** No information available

Not applicable

183 - 187 °C / 361.4 - 368.6 °F Melting Point/Range

**Boiling Point/Range** No information available Flash Point No information available

**Evaporation Rate** Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

No data available Upper Lower No data available **Vapor Pressure** No information available

**Vapor Density** Not applicable

**Specific Gravity** No information available No information available Solubility Partition coefficient; n-octanol/water No data available

**Autoignition Temperature** No information available

**Decomposition Temperature** No information available

**Viscosity** Not applicable **Molecular Formula** C10 H16 O4 200.23 **Molecular Weight** 

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

Revision Date 04-May-2022

D(+)-Camphoric acid

Stability Stable under normal conditions.

**Conditions to Avoid** Incompatible products.

**Incompatible Materials** Strong oxidizing agents

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors, Carbon

monoxide (CO), Carbon dioxide (CO2)

**Hazardous Polymerization** No information available.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

No acute toxicity information is available for this product

**Component Information** 

**Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component             | CAS No   | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------------------|----------|------------|------------|------------|------------|------------|
| 1,3-Cyclopentanedicar | 124-83-4 | Not listed |
| boxylic acid,         |          |            |            |            |            |            |
| 1,2,2-trimethyl-,     |          |            |            |            |            |            |
| (1R-cis)-             |          |            |            |            |            |            |

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

No information available. **Teratogenicity** 

STOT - single exposure None known STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

### **Mobility**

Will likely be mobile in the environment due to its water solubility.

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| 4 4  | -         | 1 6                                     |
|------|-----------|---|
| 1 /1 | Iranchort | information                             |
|      | Hallsport | II II OI II I I I I I I I I I I I I I I |

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

# 15. Regulatory information

### **United States of America Inventory**

| Component                          | CAS No   | TSCA | TSCA Inventory notification -<br>Active-Inactive | TSCA - EPA Regulatory Flags |
|------------------------------------|----------|------|--|-----------------------------|
| 1,3-Cyclopentanedicarboxylic acid, | 124-83-4 | X    | ACTIVE   | -                           |
| 1,2,2-trimethyl-, (1R-cis)-        |          |      |  |                             |

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

## **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component                          | CAS No   | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|------------------------------------|----------|-----|------|-----------|-------|------|------|------|-------|------|
| 1,3-Cyclopentanedicarboxylic acid, | 124-83-4 | -   | Х    | 204-715-0 | -     | -    |      | -    | Х     | -    |
| 1,2,2-trimethyl-, (1R-cis)-        |          |     |      |           |       |      |      |      |       |      |

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

Revision Date 04-May-2022

## D(+)-Camphoric acid

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

Not applicable

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

| Component  | CAS No   | REACH (1907/2006) -<br>Annex XIV - Substances<br>Subject to Authorization |   | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of<br>Substances of Very High<br>Concern (SVHC) |
|--|----------|---|---|---|
| 1,3-Cyclopentanedicarboxylic acid, 1,2,2-trimethyl-, (1R-cis)- | 124-83-4 | -   | - | -   |

Not applicable

### Safety, health and environmental regulations/legislation specific for the substance or mixture

| Component   | CAS No | OECD HPV             | Persistent Organic<br>Pollutant | Ozone Depletion<br>Potential | Restriction of<br>Hazardous<br>Substances (RoHS) |
|---|--------|----------------------|---------------------------------|------------------------------|--|
| 1,3-Cyclopentanedicarboxylic 124-83-4 acid, 1,2,2-trimethyl-, (1R-cis)- |        | Not applicable       | Not applicable                  | Not applicable               | Not applicable                                   |
|   |        |                      |                                 |                              |  |
| Component   | CAS No | Seveso III Directive | Seveso III Directive            | Rotterdam                    | Basel Convention                                 |

| Component                         | 070 110  | Ocveso in Directive          | OCVCSO III DII CCIIVC        | Notterdam        | Dasci Convention  |
|-----------------------------------|----------|------------------------------|------------------------------|------------------|-------------------|
| -                                 |          | (2012/18/EC) -               | (2012/18/EC) -               | Convention (PIC) | (Hazardous Waste) |
|                                   |          | <b>Qualifying Quantities</b> | <b>Qualifying Quantities</b> |                  |                   |
|                                   |          | for Major Accident           | for Safety Report            |                  |                   |
|                                   |          | Notification                 | Requirements                 |                  |                   |
| 1,3-Cyclopentanedicarboxylic      | 124-83-4 | Not applicable               | Not applicable               | Not applicable   | Not applicable    |
| acid, 1,2,2-trimethyl-, (1R-cis)- |          |                              |                              |                  |                   |

## 16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

**Revision Date** 04-May-2022 **Print Date** 04-May-2022

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

| Revision Date 04-May-2022 |
|---------------------------|
|                           |

materials or in any process, unless specified in the text

**End of SDS**