# DOCOSANOIC ACID (3,3,5,5-D4, 98\%) CHEMICAL PURITY 95\% 

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: $5 / 25 / 2016$ Revision date: 5/2/2023 Supersedes: 3/9/2023 Version: 2.1

## SECTION 1: Identification

### 1.1. Identification

Product form
Substance name
CAS-No.
Product code
Formula
Synonyms
: Substance
: DOCOSANOIC ACID (3,3,5,5-D4, 98\%) CHEMICAL PURITY 95\%
: 112-85-6
: DLM-9951
: CH3(CH2)16CD2CH2CD2CH2COOH
: Behenic acid

### 1.2. Recommended use and restrictions on use

No additional information available

### 1.3. Supplier

Cambridge Isotope Laboratories, Inc.
50 Frontage Rd
01810
ANDOVER, MA, 01810
USA
T 1-800-322-1174
cilsales@isotope.com - www.isotope.com
1.4. Emergency telephone number

| Emergency number | $:$1-703-741-5970 <br> $\quad$ Chemtrec 1-800-424-9300 24 hours |
| :--- | :--- |

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

GHS US classification
Not classified

### 2.2. GHS Label elements, including precautionary statements

## GHS US labeling

No labeling applicable

### 2.3. Other hazards which do not result in classification

No additional information available
2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients
3.1. Substances

| Name | Product identifier | $\%$ | GHS US classification |
| :--- | :--- | :--- | :--- |
| DOCOSANOIC ACID (3,3,5,5-D4, 98\%) CHEMICAL PURITY 95\% <br> (Main constituent) | CAS-No.: 112-85-6 | 100 | Not classified |

Full text of hazard classes and H -statements : see section 16

### 3.2. Mixtures

## Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation
: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion
: Wash off with soap and plenty of water.
: Flush eyes with water as a precaution.
: Never give anything by mouth to an unconscious person. Rinse mouth with water.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms

Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion
: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
: May be harmful if inhaled. May cause respiratory tract irritation.
: May be harmful if absorbed through skin. May cause skin irritation.
: May cause eye irritation.
: May be harmful if swallowed.
4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures
5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media
: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2).

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel

Emergency procedures
Avoid dust formation. Avoid breathing vapors, mist or gas.

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6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

| For containment | : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. |
| :--- | :--- |
| Methods for cleaning up | : Sweep up and shovel. Keep in suitable, closed containers for disposal. |
| 6.4. Reference to other sections |  |
| No additional information available |  |

## SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling
: Provide appropriate exhaust ventilation at places where dust is formed.

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

Technical measures : Keep container tightly closed in a cool, dry and well-ventilated place.

Storage conditions : Store at room temperature away from light and moisture.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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No additional information available

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

## Personal protective equipment:

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

| Hand protection: |
| :--- |
| Wear suitable protective clothing and gloves |
| Eye protection: |
| Chemical goggles or safety glasses |
| Skin and body protection: |
| Wear suitable protective clothing |
| Respiratory protection: |
| Wear appropriate NIOSH/MSHA approved respirator. |

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Personal protective equipment symbol(s):


SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| Physical state | Solid |
| :---: | :---: |
| Appearance | Solid. |
| Color | White |
| Odor | No data available |
| Odor threshold | No data available |
| pH | 5.64 at $1 \mathrm{~g} / \mathrm{l}$ at $28^{\circ} \mathrm{C}\left(82{ }^{\circ} \mathrm{F}\right)$ |
| Melting point | $79-81^{\circ} \mathrm{C}\left(174-178{ }^{\circ} \mathrm{F}\right) ; 72-80^{\circ} \mathrm{C}\left(162-176{ }^{\circ} \mathrm{F}\right)$ |
| Freezing point | No data available |
| Boiling point | $300{ }^{\circ} \mathrm{C}\left(572{ }^{\circ} \mathrm{F}\right)$ at $1,013 \mathrm{hPa}(760 \mathrm{mmHg})$ |
| Flash point | No data available |
| Relative evaporation rate (butyl acetate=1) | No data available |
| Flammability (solid, gas) | No data available |
| Vapor pressure | No data available |
| Relative vapor density at $20^{\circ} \mathrm{C}$ | No data available |
| Relative density | $0.54 \mathrm{~g} / \mathrm{cm} 3$ at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$ |
| Molecular mass | $344.61 \mathrm{~g} / \mathrm{mol}$ (Labeled) |
| Solubility | Water: $0.15 \mathrm{~g} / \mathrm{l}$ |
| Partition coefficient n-octanol/water (Log Pow) | 0.48 at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$ |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic | No data available |
| Explosion limits | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable if stored under recommended conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

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### 10.5. Incompatible materials

Bases, Oxidizing agents, Reducing agents.

### 10.6. Hazardous decomposition products

carbon oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects



## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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| :--- | :--- |
| LC50 - Fish [1] | $>5 \mathrm{mg} / \mathrm{l}$ semi-static test LC50 - Oryzias latipes (Orange-red killifish) - 96 h |

### 12.2. Persistence and degradability

| DOCOSANOIC ACID (3,3,5,5-D4, 98\%) CHEMICAL PURITY 95\% (112-85-6) |  |
| :--- | :--- |
| Biodegradation | $79-86 \%$ aerobic Biochemical oxygen demand - Exposure time 28 d - Readily biodegradable. |

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### 12.3. Bioaccumulative potential

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| :--- | :--- |
| Partition coefficient n-octanol/water (Log Pow) | 0.48 at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$ |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other adverse effects : Disposal must be done according to official regulations.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional legislation (waste)

Product/Packaging disposal recommendations

Ecology - waste materials
: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
: Dispose of as unused product.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not applicable

TDG
Transport hazard class(es) (TDG) : Not applicable

## IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG)
Not applicable
Packing group (IMDG)
Not applicable
Packing group (IATA)
Not applicable

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### 14.5. Environmental hazards

Other information : No supplementary information available.
14.6. Special precautions for user

Special transport precautions : DOT/IMDG/IATA: Not dangerous goods

DOT
No data available

TDG
No data available

IMDG
No data available

IATA
No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

| Name | CAS-No. | Listing | Commercial <br> status | Flags |
| :--- | :--- | :--- | :--- | :--- |
| DOCOSANOIC ACID (3,3,5,5-D4, 98\%) CHEMICAL <br> PURITY 95\% | $112-85-6$ | Not present | - |  |

### 15.2. International regulations

CANADA
No additional information available
EU-Regulations
No additional information available
National regulations
DOCOSANOIC ACID (3,3,5,5-D4, 98\%) CHEMICAL PURITY 95\% (112-85-6)
CAUTION: This material is supplied for research and development purposes subject to the R\&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

### 15.3. US State regulations

DOCOSANOIC ACID (3,3,5,5-D4, 98\%) CHEMICAL PURITY 95\% (112-85-6)
State or local regulations
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

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| Revision date | $: 05 / 02 / 2023$ |
| :--- | :--- |
| Other information | $:$This product is not radioactive. The data given for this product are those of the corresponding <br>  <br> unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled <br> compounds are generally not available, but are assumed to be similar or identical to the <br> corresponding unlabeled compound. |
|  |  |

Safety Data Sheet (SDS), USA
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