



# STEARIC ACID (D35, 98%)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/01/2011

Revision date: 08/08/2016

Supersedes: 01/04/2015

Version: 3.0

**DLM-379**

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

#### 1.1. Product identifier

Product form : Substance  
Substance name : STEARIC ACID (D35, 98%)  
EC no : 200-313-4 (Unlabeled)  
CAS No : 17660-51-4  
Product code : DLM-379  
Formula :  $\text{CD}_3(\text{CD}_2)_{16}\text{COOH}$   
Synonyms : Octadecanoic acid

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : For professional use only.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

#### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-703-741-5970 (24 hours)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

##### GHS-US classification

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

##### GHS-US labelling

No labelling applicable

#### 2.3. Other hazards

No additional information available

# STEARIC ACID (D35, 98%) DLM-379

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

| Name  | Product identifier  | %   | Classification according to Directive 67/548/EEC |
|---|---|-----|--|
| STEARIC ACID (D35, 98%)<br>(Main constituent) | (CAS No) 17660-51-4<br>(EC no) 200-313-4 (Unlabeled)<br>(EC index no) | 100 | Not classified                                   |

| Name  | Product identifier  | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|-----|---|
| STEARIC ACID (D35, 98%)<br>(Main constituent) | (CAS No) 17660-51-4<br>(EC no) 200-313-4 (Unlabeled)<br>(EC index no) | 100 | Not classified  |

Full text of R-, H- and EUH-phrases: see section 16

| Name  | Product identifier  | %   | GHS-US classification |
|---|---------------------|-----|-----------------------|
| STEARIC ACID (D35, 98%)<br>(Main constituent) | (CAS No) 17660-51-4 | 100 | Not classified        |

Full text of H-phrases: see section 16

#### 3.2. Mixture

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.     |
| First-aid measures after inhalation   | : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. |
| First-aid measures after skin contact | : Wash with soap and plenty of water. Consult a physician.  |
| First-aid measures after eye contact  | : Flush eyes with water as a precaution.  |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.           |

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

|                                      |  |
|--------------------------------------|--|
| Symptoms/injuries after inhalation   | : May be harmful if inhaled. May cause respiratory tract irritation. |
| Symptoms/injuries after skin contact | : May cause skin irritation.   |
| Symptoms/injuries after eye contact  | : Contact may cause eye irritation.                                  |
| Symptoms/injuries after ingestion    | : May be harmful if swallowed.                                       |

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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

Reactivity : Not available.

#### 5.3. Advice for firefighters

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 : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

##### 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.

# STEARIC ACID (D35, 98%) DLM-379

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

- For containment : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.
- Methods for cleaning up : Pick up and arrange disposal without creating dust. 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 : Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 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.

### 7.3. Specific end use(s)

No additional information available

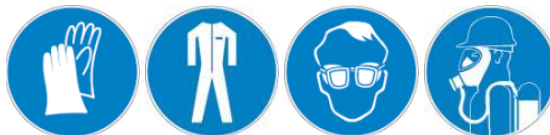
## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

- Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



- Hand protection : Wear suitable protective clothing and gloves.
- Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

## SECTION 9: Physical and chemical properties

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

- Physical state : Solid
- Appearance : Solid.
- Molecular mass : 319.69 g/mol (Labeled)
- Colour : white.
- Odour : No data available
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : 67 - 72 °C (153 - 162 °F) - lit.
- Freezing point : No data available
- Boiling point : 361 °C (682 °F) - lit.
- Flash point : 113 °C (235 °F) - closed cup
- Self ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapour pressure : 1 hPa (1 mmHg) at 173.7 °C (344.7 °F)
- Relative vapour density at 20 °C : No data available
- Relative density : 0.845 g/cm<sup>3</sup>
- Solubility : No data available
- Log Pow : No data available

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## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|                      |   |
|----------------------|---|
| Log Kow              | : No data available                       |
| Viscosity, kinematic | : 12 mm <sup>2</sup> /s at 70 °C (158 °F) |
| Viscosity, dynamic   | : No data available                       |
| Explosive properties | : No data available                       |
| Oxidising properties | : No data available                       |
| Explosive limits     | : No data available                       |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not 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

Not available.

### 10.5. Incompatible materials

Oxidizing agents. Bases. Reducing agents.

### 10.6. Hazardous decomposition products

carbon oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| STEARIC ACID (D35, 98%) (17660-51-4) |              |
|--------------------------------------|--------------|
| LD50 oral rat                        | > 2000 mg/kg |
| LD50 dermal rabbit                   | > 5000 mg/kg |

|   |  |
|---|--|
| Skin corrosion/irritation                           | : Skin - Rabbit Result: No skin irritation - 20 h  |
| Serious eye damage/irritation                       | : Eyes - Rabbit Result: No eye irritation  |
| Respiratory or skin sensitisation                   | : Not classified   |
| Germ cell mutagenicity                              | : Not classified   |
| Carcinogenicity                                     | : Carcinogenicity - Mouse - Implant  |
| Reproductive toxicity                               | : Not classified   |
| Specific target organ toxicity (single exposure)    | : Not classified   |
| Specific target organ toxicity (repeated exposure)  | : Not classified   |
| Aspiration hazard                                   | : Not classified   |
| Potential Adverse human health effects and symptoms | : Corrosivity: based upon skin corrosion test data, classification criteria are not met. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| Symptoms/injuries after inhalation                  | : May be harmful if inhaled. May cause respiratory tract irritation.   |
| Symptoms/injuries after skin contact                | : May cause skin irritation.   |
| Symptoms/injuries after eye contact                 | : Contact may cause eye irritation.  |
| Symptoms/injuries after ingestion                   | : May be harmful if swallowed.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

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## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Offer surplus and non-recyclable solutions to a licensed disposal company.  
Waste disposal recommendations : Dispose of as unused product.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.3. Additional information

Other information : No supplementary information available.  
Special transport precautions : DOT/IMDG/IATA: Not dangerous goods.

#### Overland transport

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### 14.4. Environmental hazards

Other information : No supplementary information available.

### 14.5. Special precautions for user

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

### 14.6. 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

No additional information available

### 15.2. International regulations

#### CANADA

##### STEARIC ACID (D35, 98%) (17660-51-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 15.2.1. National regulations

No additional information available

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## Safety Data Sheet

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### 15.3. US State regulations

#### STEARIC ACID (D35, 98%)(17660-51-4)

State or local regulations

U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

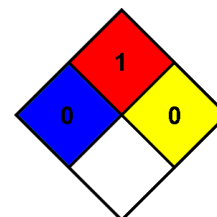
### SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



#### HMIS III Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 1 Slight Hazard

Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

*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*