

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/08/2022 Revision date: : Version: 1.0

CLM-293-MPT

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

#### 1.1. Product identifier

Product form : Substance

Substance name : OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED

EC-No. : 204-677-5 (Unlabeled)

 CAS-No.
 : 59669-16-8

 Product code
 : CLM-293-MPT

 Formula
 : CH3(CH2)6\*COOH

 Synonyms
 : Caprylic acid; Acid C8

#### 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 <a href="mailto:cilsales@isotope.com">cilsales@isotope.com</a> 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]

Skin Corr. 1A H314 Eye Dam. 1 H318

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

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

C; R35 Xi; R41 Xi; R39 R52

Full text of R-phrases: see section 16

#### **GHS-US** classification

Skin Corr. 1A H314 Eye Dam. 1 H318 Aquatic Acute 3 H402

Full text of H statements : see section 16

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

No additional information available

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#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage

Precautionary statements (CLP) : P260 - Do not breathe spray, mist.

P264 - Wash both hands thoroughly after handling.

P280 - Wear eye protection, face protection, protective gloves, protective clothing. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor.

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage H402 - Harmful to aquatic life

Precautionary statements (GHS-US) : P260 - Do not breathe mist, spray.

P264 - Wash Both hands thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a poison center or doctor

P321 - Specific treatment (see Hazard pictograms (CLP) on this label)

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to Comply with applicable regulations

#### 2.3. Other hazards

No additional information available

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

### 3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED	(CAS-No.) 59669-16-8 (EC-No.) 204-677-5 (Unlabeled)	100	C; R35 Xi; R41 Xi; R39 R52

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED	(CAS-No.) 59669-16-8 (EC-No.) 204-677-5 (Unlabeled)	100	Skin Corr. 1A, H314 Eye Dam. 1, H318

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

Name	Product identifier	%	GHS-US classification
OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED (Main constituent)	(CAS-No.) 59669-16-8	100	Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

Full text of H-phrases: see section 16

#### **Mixtures** 3.2.

Not applicable

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

First-aid measures after inhalation

## **Description of first aid measures**

First-aid measures general : Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

First-aid measures after skin contact Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

Consult a physician.

First-aid measures after eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue

rinsing eyes during transport to hospital.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse First-aid measures after ingestion

mouth with water. Consult a physician.

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

Symptoms/effects after inhalation : May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous

membranes and upper respiratory tract.

Symptoms/effects after skin contact : May be harmful if absorbed through the skin. Causes skin burns.

Symptoms/effects after eye contact : Causes eye burns.

Symptoms/effects after ingestion : May be harmful if swallowed.

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

No additional information available

## **SECTION 5: Firefighting measures**

#### **Extinguishing media**

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

### Special hazards arising from the substance or mixture

No additional information 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

Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate **Emergency procedures** 

ventilation. Evacuate personnel to safe area.

#### 6.1.2. For emergency responders

No additional information available

#### **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.

## Methods and material for containment and cleaning up

For containment Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable,

closed containers for disposal.

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#### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

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

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

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









Materials for protective clothing : Wear suitable protective clothing and gloves. 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 : Wear complete suit protecting against chemicals according to concentration and amount of

substance.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

Environmental exposure controls : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, viscous liquid
Molecular mass : 145.2 g/mol (Labeled)

Color : Light yellow
Odor : No data available
Odor threshold : No data available
pH : 3.5 at 0.5 g/l
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : 15 - 17 °C (59 - 63°F) - lit.

Freezing point : No data available

Boiling point : 237 °C (459 °F) - lit.

Flash point :  $> 110 \, ^{\circ}\text{C} \, (> 230 \, ^{\circ}\text{F}) - \text{closed cup}$ 

Vapor pressure : 13 hPa (10 mmHg) at 124 °C (255 °F); 1 hPa (1 mmHg) at 78 °C (172 °F)

Relative vapor density at 20 °C : 4.98 - (Air = 1.0)

Relative density : No data available

Specific gravity / density : 0.91 g/ml at 25 °C (77 °F)

Solubility : Water: 0.68 g/l at 20 °C (68 °F)

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Log Pow : 3.05

Log Kow : No data available Viscosity, kinematic : No data available No data available Viscosity, dynamic Explosive properties No data available Oxidizing properties : No data available **Explosion limits** No data available

#### Other information

No additional information available

## SECTION 10: Stability and reactivity

#### Reactivity

No additional information available

#### **Chemical stability**

Stable if stored under recommended conditions.

#### Possibility of hazardous reactions

No additional information available

#### **Conditions to avoid**

Not available.

#### Incompatible materials

Bases, Oxidizing agents, Reducing agents

#### 10.6. **Hazardous decomposition products**

Carbon oxides

### **SECTION 11: Toxicological information**

## Information on toxicological effects

Acute toxicity : Not classified

OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED (59669-16-8)	
LD50 oral rat	> 2000 mg/kg male and female (OECD Test Guideline 401)
LD50 dermal rabbit	> 5000 mg/kg
ATE CLP (oral)	10080.000 mg/kg body weight

Skin corrosion/irritation : Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404)

pH: 3.5 at 0.5 g/l

Serious eye damage/irritation : Eyes - rabbit Result: Irritating to eyes.

> pH: 3.5 at 0.5 g/l : Not classified

Respiratory or skin sensitization Germ cell mutagenicity Not classified Carcinogenicity : Not classified Reproductive toxicity Not classified Specific target organ toxicity - single exposure : Not classified Specific target organ toxicity - repeated : Not classified

exposure

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin Cough, Shortness of breath, Nausea, Headache. 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

Symptoms/effects after inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous

guaranteeing any specific property of the product.

membranes and upper respiratory tract.

: May be harmful if absorbed through the skin. Causes skin burns. Symptoms/effects after skin contact

Symptoms/effects after eye contact : Causes eye burns.

Symptoms/effects after ingestion : May be harmful if swallowed.

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## **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED (59669-16-8)		
LC50 fish 1	22 mg/l static test - Lepomis machrochirus (Bluegill sunfish) - 96 h	
EC50 Daphnia 1	550 mg/l Immobilization - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 201)	
EC50 other aquatic organisms 1	31 mg/l Growth Inhibition - Pseudokirchneriella subcapitata (green algae) - 72 h (OECD Test Guideline 201)	

#### Persistence and degradability 12.2.

OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED (59669-16-8)	
Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	51.6 % Not readily biodegradable (OECD Test Guideline 301B)

#### 12.3. **Bioaccumulative potential**

OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED (59669-16-8)	
Log Pow	3.05

#### 12.4. **Mobility in soil**

No additional information available

### Results of PBT and vPvB assessment

No additional information available

#### Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of an unprofessional handling or

disposal. Harmful to aquatic life.

## **SECTION 13: Disposal considerations**

### Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and local

environmental control regulations.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Dispose of as unused product.

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### **UN** number

UN-No.(DOT) : 3265 DOT NA no. UN3265

#### 14.2. **UN** proper shipping name

Proper Shipping Name (DOT) : Corrosive liquid, acidic, organic, n.o.s.

(Octanoic acid)

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT) : 8 - Corrosive

**DOT Symbols** : G - Identifies PSN requiring a technical name

Packing group (DOT) : III - Minor Danger

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DOT Special Provisions (49 CFR 172.102)

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
Marine pollutant : No

#### 14.3. Additional information

Other information : No supplementary information available.

## **Overland transport**

Packing group (ADR) : III

Class (ADR) : 8 - Corrosive substances

Hazard identification number (Kemler No.) : 80
Classification code (ADR) : C3

Hazard labels (ADR) : 8 - Corrosive substances



Orange plates

80 3265

Tunnel restriction code (ADR) : E
Limited quantities (ADR) 51
EAC : 2X
APP : B
Excepted quantities (ADR) : E1

### Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

MFAG-No : 153

### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Corrosive substances

## 14.4. Environmental hazards

Other information : No supplementary information available.

## 14.5. Special precautions for user

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

Not applicable

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# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

### OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED (59669-16-8)

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

### 15.2. International regulations

#### **CANADA**

## OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED (59669-16-8)

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

OCTANOIC ACID (1-13C, 99%) MICROBIOLOGICAL/PYROGEN TESTED(59669-16-8)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List	

## **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.

## Full text of R-, H- and EUH-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
R35	Causes severe burns
R39	Danger of very serious irreversible effects
R41	Risk of serious damage to eyes
R52	Harmful to aquatic organisms
С	Corrosive
Xi	Irritant

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause

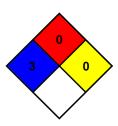
serious or permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



## **Hazard Rating**

Flammability

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

: 0 Minimal Hazard: 0 Minimal Hazard

Physical

CIL Substance 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

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