

# Cholesterol (3,4-13C<sub>2</sub>, 99%)

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/24/2011 Revision date: 5/2/2024 Supersedes: 8/16/2022 Version: 4.0

# **SECTION 1: Identification**

4.4. Identification	
1.1. Identification	
Product form Substance name CAS-No. Product code Formula Synonyms Other means of identification	<ul> <li>Substance</li> <li>Cholesterol (3,4-<sup>13</sup>C<sub>2</sub>, 99%)</li> <li>57-88-5</li> <li>CLM-804</li> <li>*C2C25H46O</li> <li>3Beta-Hydroxy-5-cholestene; 5-Cholesten-3Beta-ol</li> <li>Also applicable to: CLM-804-PO-CTM (3,4-13C2, 99%)</li> </ul>
1.2. Recommended use and restrie	ctions 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	<u>1</u>
1.4. Emergency telephone number	r

Emergency number

: 1-703-741-5970 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
Cholesterol (3,4-13C2, 99%) (Main constituent)	CAS-No.: 57-88-5	100	Not classified
Full text of hazard classes and H-statements : see section 16		1	
3.2. Mixtures			
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 First-aid measures after eye contact	<ul><li>Wash with soap and plenty of water. Consult a physician.</li><li>Flush eyes with water as a precaution.</li></ul>
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	(acute and delayed)
Potential Adverse human health effects and symptoms	: 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.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Immediate medical attention and spec	ial 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 Protection during firefighting	<ul><li>Wear self contained breathing apparatus for fire fighting if necessary.</li><li>Do not enter fire area without proper protective equipment, including respiratory protection.</li></ul>	

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SECTION 6: Accidental release measur	res
6.1. Personal precautions, protective equip	ment and emergency procedures
<ul> <li>6.1.1. For non-emergency personnel</li> <li>Emergency procedures</li> <li>6.1.2. For emergency responders</li> <li>No additional information available</li> </ul>	: Avoid dust formation. Avoid breathing vapors, mist or gas.
6.2. Environmental precautions	
Do not let product enter drains.	
6.3. Methods and material for containment	and cleaning up
For containment	: Take up mechanically (sweeping, shoveling) and collect in suitable container 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 Hygiene measures	<ul> <li>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.</li> <li>Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</li> </ul>
7.2. Conditions for safe storage, including a	any incompatibilities
Storage conditions	: Store in freezer (-20°C). Protect from light.
SECTION 8: Exposure controls/persona	al protection
8.1. Control parameters	
Cholesterol (3,4-13C2, 99%) (57-88-5)	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
8.3. Individual protection measures/Person	al protective equipment
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

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#### 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.

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
рН	: No data available
Melting point	: 147 – 149 °C (297 - 300 °F)
Freezing point	: No data available
Boiling point	: 360 °C (680 °F)
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°C	: No data available
Relative density	: 1.067 g/cm3 at 25 °C (77 °F)
Molecular mass	: 388.64 g/mol (Labeled)
Solubility	: Water: 0.00003 g/l
Partition coefficient n-octanol/water (Log Pow)	: No data available
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

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10.2. Chemical stability			
Stable if stored under recommended conditions.			
10.3. Possibility of hazardou	s reactions		
No additional information available			
10.4. Conditions to avoid			

No additional information available

**10.5. Incompatible materials** 

Strong oxidizing agent.

**10.6. Hazardous decomposition products** 

carbon oxides.

# SECTION 11: Toxicological information

### **11.1. Information on toxicological effects**

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Cholesterol (3,4- <sup>13</sup> C <sub>2</sub> , 99%) (57-88-5)	
LD50 dermal rat	> 2000 mg/kg male and female
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Cholesterol (3,4- <sup>13</sup> C <sub>2</sub> , 99%) (57-88-5)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and	: This information is based on our current knowledge and is intended to describe the product for
symptoms	the purposes of health, safety and environmental requirements only. It should not therefore be
	construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation. : May be harmful if swallowed.

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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12.2. Persistence and degradability		
Cholesterol (3,4-13C <sub>2</sub> , 99%) (57-88-5)		
Persistence and degradability	Aerobic - exposure time: 28 d.	
Biodegradation	74 % Inherently biodegradable	
12.3. Bioaccumulative potential		
No additional information available		
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. Avoid release to the environment.	

SECTION 13: Disposal considerations		
13.1. Disposal 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	<ul> <li>Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.</li> </ul>	
Ecology - waste materials	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) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable
<b>TDG</b> Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable

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14.4. Packing group					
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>				
14.5. Environmental hazards					
Other information	: No supplementary information available.				
14.6. Special precautions for user					
Special transport precautions	: Not dangerous goods.				
<b>DOT</b> No data available					
TDG No data available					
IMDG No data available					
IATA No data available					
14.7. Transport in bulk according to Ann	ex 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	ig to the United States Environmental Protection /	Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Cholesterol (3,4-13C2, 99%)	57-88-5	Not present	-	

### **15.2. International regulations**

### CANADA

Cholesterol (3,4-13C<sub>2</sub>, 99%) (57-88-5)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

15.3. US State regulations

No additional information available

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### **SECTION 16: Other information**

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Other information

- : 05/02/2024
- : 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.

Safety Data Sheet (SDS), USA

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