

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 4/1/2014 Revision date: 5/2/2024 Supersedes: 10/17/2023 Version: 4.0

# **SECTION 1: Identification**

CAS-No.         : 57-88           Product code         : CLM-5           Formula         : C24*C	terol (2,3,4- <sup>13</sup> C <sub>3</sub> ,99%) 5 139
No additional information available <b>1.3. Supplier</b> Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174	
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<u> </u>	
1.4. Emergency telephone number	
	741-5970 rec 1-800-424-9300 24 hours

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 (2,3,4- <sup>13</sup> C <sub>3</sub> ,99%) (Main constituent)	CAS-No.: 57-88-5	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 general First-aid measures after inhalation	<ul> <li>Move out of dangerous area. Consult a physician and show this safety data sheet.</li> <li>If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.</li> </ul>
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 effect	ts (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 sp	ecial treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	ing media
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Specific hazards arising from the ch	iemical
No additional information available	

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

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

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SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective e	quipment 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. Avoid breathing dust.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
6.3. Methods and material for containm	ent 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	
Additional hazards when processed	: Provide appropriate exhaust ventilation at places where dust is formed. 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, inclu	uding any incompatibilities

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Storage conditions

: Store in freezer (-20°C). Protect from light.

# **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters	
Cholesterol (2,3,4-13C3,99%) (57-88-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.

# 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.

### Eye protection:

Wear safety glasses with side shields (or goggles) and a face shield.

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### 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	: Beige
Odor	Ū
	: 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/mL at 20 °C (77 °F)
Molecular mass	: 389.63 (Labeled)
Solubility	: No data available
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

**10.2. Chemical stability** 

Stable if stored under recommended conditions.

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10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
No additional information available		
10.5. Incompatible materials		
Strong oxidizing agents.		
10.6. Hazardous decomposition products		
Carbon oxides (CO, CO2).		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
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 (2,3,4-13C3,99%) (57-88-5)		
IARC group	3 - Not classifiable	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	

(oproduction control)	
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.
Symptoms/effects after ingestion	: 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.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	

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# 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)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.	
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.	
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
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.

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### 14.6. Special precautions for user

Special transport precautions

: Not dangerous goods.

DOT

No data available

#### TDG

No data available

#### IMDG

No data available

#### ΙΑΤΑ

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 status	Flags
Cholesterol (2,3,4-13C3,99%)	57-88-5	Not present	-	

## 15.2. International regulations

### CANADA

Cholesterol (2,3,4-13C3,99%) (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

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

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Revision date 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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