

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.4 Revision Date 02.08.2023 Print Date 29.05.2025

# GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

# 1.1 Product identifiers

Product name : Cholesterol

Product Number : C8667 Brand : Sigma

REACH No. : A registration number is not available for this substance as the

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

substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS-No. : 57-88-5

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

Identified uses : Laboratory chemicals, Manufacture of substances

# 1.3 Details of the supplier of the safety data sheet

Company : Merck Life Science (Pty) Ltd.

1 Friesland Drive

Longmeadow Business Estate

**MODDERFONTEIN** 

1609

SOUTH AFRICA

Telephone : +27 +27 (0) 8600 63725Fax : +27 +27 (0) 860 522 329

E-mail address : Melissa.byrne@merckgroup.com

1.4 Emergency telephone

Emergency Phone # : 0-800-983-611

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

# 2.2 Label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

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#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# **Ecological information:**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

#### 3.1 Substances

Synonyms : 3β-Hydroxy-5-cholestene

5-Cholesten-3β-ol

Formula :  $C_{27}H_{46}O$ Molecular weight : 386,65 g/mol CAS-No. : 57-88-5 EC-No. : 200-353-2

No components need to be disclosed according to the applicable regulations.

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

# 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

# In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

## If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# 4.3 Indication of any immediate medical attention and special treatment needed No data available

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# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

# Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

# 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

## **5.4** Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

# 6.2 Environmental precautions

Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

# 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

# Storage conditions

Tightly closed. Dry.

#### Storage stability

Recommended storage temperature -20 °C

# Storage class

Storage class (TRGS 510): 11: Combustible Solids

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# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

## 8.1 Control parameters

Ingredients with workplace control parameters

# 8.2 Exposure controls

Personal protective equipment

## **Eve/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

# Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

# **Respiratory protection**

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

# Control of environmental exposure

Do not let product enter drains.

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

# Information on basic physical and chemical properties

a) Physical state solid white b) Color

c) Odor No data available

d) Melting Melting point/range: 147 - 149 °C

point/freezing point

e) Initial boiling point 360 °C and boiling range

Flammability (solid, No data available f) gas)

g) Upper/lower No data available flammability or explosive limits

h) Flash point Not applicable Autoignition No data available temperature

Decomposition j) temperature

> 200 °C

k) pH No data available

Viscosity Viscosity, kinematic: No data available I) Viscosity, dynamic: No data available

m) Water solubility 0,00003 g/l at 20 °C - OECD Test Guideline 105- insoluble

n) Partition coefficient: log Pow: > 6,5 at 20 °C - OECD Test Guideline 117 - Potential n-octanol/water bioaccumulation

< 0,01 hPa at 20 °C - OECD Test Guideline 104 o) Vapor pressure

1,067 g/mL at 25 °C p) Density No data available Relative density No data available Relative vapor

density

r) Particle No data available

characteristics

No data available s) Explosive properties

Oxidizing properties none

#### 9.2 Other safety information

No data available

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# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

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## 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

# 10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents

#### 10.4 Conditions to avoid

no information available

## 10.5 Incompatible materials

No data available

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Acute toxicity**

LD50 Oral - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 401) Inhalation: No data available

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

Remarks: Limit Test

#### Skin corrosion/irritation

Skin - EPISKIN Human Skin Model Test

Result: No skin irritation (OECD Test Guideline 439)

# Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation - 24 h (OECD Test Guideline 405)

# Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: negative

(OECD Test Guideline 429)

# Germ cell mutagenicity

Test Type: Ames test

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Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation

Result: negative Remarks: (ECHA) Carcinogenicity No data available

# Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

#### 11.2 Additional Information

# **Endocrine disrupting properties**

# **Product:**

Assessment The substance/mixture does not contain

components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

RTECS: FZ8400000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

No toxic effects are to be expected when the product is handled appropriately.

Substance which occurs in the human body under physiological conditions.

Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

No data available

## 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 74 % - Readily biodegradable.

(OECD Test Guideline 302C)

Biochemical Oxygen 8

Demand (BOD)

830 mg/g

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## 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# 12.6 Endocrine disrupting properties

# **Product:**

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# 12.7 Other adverse effects

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

No data available

# **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID: - IMDG: - IATA: -

# 14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

# 14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

# 14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

## 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

# 14.6 Special precautions for user

No data available

# **Further information**

Not classified as dangerous in the meaning of transport regulations.

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# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

# 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. -Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

## **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the

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