

Material Safety Data Sheet

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Section 1 - Product and Company Information

Product Name Product Number Cholesterol, >= 99% C3045

Brand

Sigma Chemical

Company Street Address Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country

SAINT LOUIS, MO 63103 US

Technical Phone:

314 771 5765

800 325 5052

Emergency Phone:

414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313

EC no

Annex I Index Number

CHOLESTEROL

57-88-5

No

200-353-2

Formula

Synonyms

Cholest-5-en-3-oi (3-beta)- (9Cl), Cholest-5-en-3-beta-oi, delta(sup 5)-Cholesten-3-beta-oi, 5-Cholesten-3-beta-ol, 5:6-Cholesten-3-ol, 5:6-Cholesten-3-beta-ol, Cholesterin, Cholesterine, Cholestrin, (-)-Cholesterol, Cholesteryl alcohol, Dythol, 3-beta-Hydroxycholest-5-ene, Provitamin D

Section 3 - Hazards Identification

HMIS Rating

Health: 0

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 0

Flammability: 0

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp:

N/A

Extinguishing Media

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic furnes under fire conditions.

Section 6 - Accidental Release Measures

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Methods for Cleaning Up

Absorb on sand or vermiculite and place in closed containers for disposal. Wash spill site with soap solution.

Section 7 - Handling and Storage

User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Suitable

Keep tightly closed. Store at -20°C

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Wear dust mask.

Hand

Protective gloves.

Chemical safety goggles.

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Physical State

Color

Solid

Very faintly beige

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Property Value N/A Нα 360 °C BP/BP Range 148 °C MP/MP Range Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density 1.067 g/cm3 **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** N/A Water Content N/A Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A Partition Coefficient N/A Decomposition Temp. N/A Flash Point °F N/A Flash Point °C N/A **Explosion Limits** N/A Flammability N/A **Autoignition Temp**

386.66 AMU

At Temperature or Pressure

760 mmHg

Molecular Weight:

Section 10 - Stability and Reactivity

Solvent: 0.1 g/ml CHCl3, clear, colorless

N/A

Stability Stable

Solubility

Stable.

N/A = not available

Materials to Avoid Strong oxidizing agents.

Hazardous Decomposition Products Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide.

Hazardous Polymerization Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

May cause eye irritation.

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract,

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Ingestion

May be harmful if swallowed.

Signs and Symptoms of Exposure

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

RTECS Number: FZ8400000

Chronic Exposure - Carcinogen

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH,

NTP, or EPA classification.

Rat Intraperitoneal: 800 MG/KG 43W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Mouse - Subcutaneous: 15 GM/KG 47W I

Result: Tumorigenic:Carcinogenic by RTECS criteria. Tumorigenic:Tumors at site or application.

Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Kidney, Ureter, Bladder:Tumors. Tumorigenic:Tumors at

site or application.

Mouse - Subcutaneous: 60 GM/KG 2W I

Result: Tumorigenic:Carcinogenic by RTECS criteria. Tumorigenic:Tumors at site or application.

IARC Carcinogen List

Group 3

Chronic Exposure - Teratogen Species

Route of Application

Exposure Time (8-14D PREG)

175 MG/KG Subcutaneous

Result: Specific Developmental Abnormalities: Craniofacial (including nose and tongue).

(1-31D PREG) Rabbit 6 GM/KG Oral

Result: Effects on Embryo or Fetus: Extra embryonic structures (e.g., placenta, umbilical cord).

Effects on Newborn: Stillbirth.

Chronic Exposure - Mutagen

Species Dose Cell Type

Mutation test

Other cell types DNA

1 UMOL/L Chronic Exposure - Reproductive Hazard

Species . Rat

Mouse

Dose 1900 MG/KG Route of Application Subcutaneous

Exposure Time (1-19D PREG)

Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

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IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification

Safety Statements S: 22 24/25

Do not breathe dust. Avoid contact with skin and eyes.

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information

required by the CPR.

DSL: Yes ND\$L: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty
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 present state of our knowledge and is applicable to the product with regard to appropriate safety precautions, it does not represent any guarantee of the product. Set gigna-Aldrich inc., shall not be held liable for any damage resulting from handling or from contact with the above product. Set erverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

