



Safety Data Sheet

(Cholesterol)

DATE PREPARED: 1/17/2014

REVISION NUMBER: 1/17/2014

Section 1 – Company Information

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER:

CHEMTEL - Parchem CCN# M1S0007152

Toll Free US & Canada: (800)255-3924

All other Origins: (813) 248-0585

Collect Calls Accepted

Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME Cholesterol

SYNONYM Cholesterin, Cholesterine, Cholesteryl alcohol, Dythol, Provitamin D

FORMULA $C_{27}H_{46}O$

PRODUCT	CAS NUMBER	% BY WEIGHT
Cholesterol	57-88-5	100%

Section 3 – Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant, permeator), eye contact (irritant), ingestion, or inhalation.

Potential Chronic Health Effects: Slightly hazardous in case of ingestion.

Carcinogenic Effects: 3 (Not classifiable for human.) by IARC.

Mutagenic Effects: Mutagenic for bacteria and/or yeast.

Teratogenic Effects: Not available.

Developmental Toxicity: Not available.

The substance may be toxic to blood, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4 – First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt, or waistband.

Serious Ingestion: Not available.

Section 5 – Fire Fighting Measures

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat.

Explosion Hazards in Presence of Various Substances

Risks of Explosion of the Product in Presence of Mechanical Impact: Not available.

Risks of Explosion of the Product in Presence of Static Discharge: Not available.

Fire Fighting Media and Instructions

Small Fire: Use DRY chemical powder.

Large Fire: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6 – Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7 – Handling & Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Equipment containing material. Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.

Section 8 – Exposure Controls & Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9 – Physical & Chemical Properties

Physical State and Appearance: Solid. (Crystalline powder.)

Odor: Almost odorless.

Taste: Not available.

Molecular Weight: 386.67 g/mol

Color: White.

pH (1% soln/water): Not available.

Boiling Point: 360°C (680°F)

Melting Point: 148°C (298.4°F) - 150°C

Critical Temperature: Not available.

Specific Gravity: 1.067 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coefficient: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether, acetone.

Solubility: Soluble in diethyl ether, acetone. Very slightly soluble in cold water. Slightly soluble in alcohol; more soluble in hot alcohol. Soluble in chloroform, pyridine, benzene, petroleum ether, oils, fats, aqueous solutions of bile salts.

Solubility in Water: 0.2 mg/100ml or 0.2%

Solubility in Ether: 1 g/2.8 mL ether.

Solubility in Chloroform: 1 g/4.5 mL chloroform.

Solubility in Pyridine: 1 g/1.5 mL pyridine.

Section 10 – Stability & Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Not considered to be corrosive for metals and glass.

Special Remarks on Reactivity: Sensitive to light. Air sensitive. It is affected by light and air and turns yellow.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11 – Toxicological Information

Routes of Entry: Absorbed through skin. Inhalation. Ingestion.

Toxicity to Animals

LD50: Not available.

LC50: Not available.

Chronic Effects on Humans

Carcinogenic Effects: 3 (Not classifiable for human.) by IARC.

Mutagenic Effects: Mutagenic for bacteria and/or yeast.

May Cause Damage to the Following Organs: blood, liver.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant, permeator), ingestion, or inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. No human data found. May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans

Acute Potential Health Effects

Skin: May cause skin irritation. It may be absorbed through the skin. Low hazard for usual industrial handling.

Eyes: May cause mechanical eye irritation.

Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling.

Ingestion: Ingestion of large amounts may cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. Expected to be a low hazard for usual industrial handling.

Chronic Potential Health Effects

Ingestion: Cholesterol is the principal sterol found in the body tissues of higher animals. Toxicity only seems to occur only after prolonged oral doses of medium to high amounts. Prolonged or repeated ingestion may affect the liver (changes in liver weight), spleen (changes in spleen weight), and blood (changes in serum composition; pigmented or nucleated red blood cells).

Other symptoms noted in the Registry of Toxic Effects of Chemical Substances include changes in cochlear function and structure, and changes in peripheral motor recording. The toxicological properties of this substance have not been fully investigated.

Section 12 – Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13 – Disposal Consideration

Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14 – Transportation Data

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15 – Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Cholesterol

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): Not applicable



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HMIS (U.S.A.)

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.)

Health: 1

Flammability: 1

Reactivity: 0

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16 – Other Information

Disclaimer

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 properties of the product.

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