

Section 1: Identification

Common Name/Trade Name	CHOLESTYRAMINE RESIN	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	Colestyramine	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Not a hazardous substance or mixture.
Signal Word	None
Hazard Statement(s)	N/A
Pictogram(s)	N/A
Precautionary Statement(s)	N/A
Hazards Not Otherwise Classified	No data available
Ingredient(s) with Unknown Toxicity	No data available

Section 3: Composition/Information on Ingredients

Chemical Name	Cholestyramine Resin		
Common Name	Cholestyramine Resin		
CAS Number	11041-12-6		
	Material	Percent	CAS
	Water	< 12%	7732-18-5
Impurities and/or Stabilizing Additives	No data available		

Section 4: First Aid Measures

General Advice	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In India, the 24 hours/365 days national poison control center toll free phone number is 1800 116 117. Do not wait for the victim to look or feel sick. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
If Inhaled	Remove victim to fresh air. If breathing is difficult, remove to fresh air and keep at rest in a position (e.g recovery position) comfortable for breathing. Call a physician if symptoms develop or persist.
In Case of Skin Contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
In Case of Eye Contact	Remove spectacles/contact lenses if any. Rinse with water. Get medical attention if irritation develops and persists.
If Swallowed	Rinse mouth. Never give anything by mouth to an unconscious victim. Loosen tight clothing such as a collar, tie, belt or waistband. Get immediate medical attention if discomfort continues. If ingestion of a large amount does occur, call a poison control center immediately.
Most Important Symptoms and Effects	Gastrointestinal disturbances.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Water, Foam. Dry chemical or CO2. Use fire extinguishing media appropriate for surrounding materials. Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Fire fighters should use self-contained breathing equipment and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials.
Special Hazards Arising From the Substance/Mixture	No unusual fire or explosion hazards noted. Material in powder form is capable of creating a dust explosion. As with most organic solids, fire is possible at elevated temperatures. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Special PPE and/or Precautions for Firefighters	Wear suitable protective equipment.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
Methods and Materials Used for Containment	For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container disposal. Clean surface thoroughly to remove residual contamination. For large spill, use a shovel to put the material into a suitable waste disposal container. Clean surface thoroughly to remove residual contamination. Do not allow to enter public sewers and water courses.
Cleanup Procedures	For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container disposal. Clean surface thoroughly to remove residual contamination. For large spill, use a shovel to put the material into a suitable waste disposal container. Clean surface thoroughly to remove residual contamination. Do not allow to enter public sewers and water courses.

Section 7: Handling and Storage

Precautions for Safe Handling	Risk of static discharge from dry polymer powder. The usual precautions for handling chemicals should be observed. Avoid all contact and inhalation of dust, mists, and /or vapors associated with the material. Wear chemically compatible hand gloves and clean the area with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly.
Conditions for Safe Storage	Keep container tightly closed, away from incompatible materials. Store at 20°C to 25°C (68°F to 77°F) as per the label instructions to ensure product integrity.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	No biological exposure limits noted for the ingredient(s)
Appropriate Engineering Controls	Airborne exposure in industries should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a fume chamber or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures. Handle in accordance with good industrial hygiene and safety practice.
PPE - Eye/Face Protection	Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.
PPE - Skin Protection	Chemically compatible gloves. For handling product in solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Persons who are sensitive to natural rubber (latex) should use nitrile or other synthetic non latex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.
PPE - Body Protection	For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.
PPE - Respiratory Protection	Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection or equivalent suitable and have an effective respirator program in place.

Section 9: Physical and Chemical Properties

Appearance	White to buff colored powder
Upper/Lower Flammability or Explosive Limits	No data available
Odor	Odorless or faint amine like odor.
Vapor Pressure	Not applicable
Odor Threshold	Not available
Vapor Density	Not applicable
pH	Not applicable
Relative Density	Not available
Melting Point/Freezing Point	Not available
Solubility	Insoluble in water, in ethanol, in chloroform, in ether, and in benzene.
Initial Boiling Point and Boiling Range	Not applicable
Flash Point	Closed cup: Higher than 93.3Å°C (200Å°F)
Evaporation Rate	Not available
Flammability (Solid, Gas)	The preparation is not flammable before the evaporation of moist water
Partition Coefficient	Not applicable
Auto-Ignition Temperature	>500Å°C (> 932Å°F)
Decomposition Temperature	Not available
Viscosity	Not applicable

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Material is stable under normal conditions
Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Contact with strong oxidizers, especially nitric acid, may produce low molecular weight organics that may form explosive mixtures.
Incompatible Materials	Incompatible with strong oxidizing agents
Hazardous Decomposition Products	Irritating and/or toxic fumes or gases Combustion products may include monomers, residual organics, carbon oxides, amines, nitrogen and sulphur oxides, Chlorides.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 Oral - Mouse > 7500 mg/kg, Rat - > 4,000 mg/kg. Not classified.
Acute Toxicity - Inhalation	Classification not possible.
Acute Toxicity - Dermal	Classification not possible.
Acute Toxicity - Eye	Classification not possible.
Skin Corrosion/Irritation	Classification not possible.
Serious Eye Damage/Irritation	Classification not possible.
Respiratory or Skin Sensitization	Classification not possible.
Germ Cell Mutagenicity	Classification not possible. Ames tests in <i>S. typhimurium</i> Result: Negative. Mutagenicity tests in L51784 mouse lymphoma cells Result: Negative.
Carcinogenicity IARC	No data available. Carcinogenicity: Not classified. A study showed no difference in the incidence of cancer between patients treated with this material and those receiving a placebo.
Carcinogenicity ACGIH	No data available.
Carcinogenicity NTP	No data available.
Carcinogenicity OSHA	No data available.
Reproductive Toxicity	Not classified. Adverse effects on the fetus may occur due to impaired maternal absorption of vitamins and nutrients. 2000 mg/kg/day Reproductivity and development studies in rats and rabbits. Result: No adverse effects on fertility or offspring development noted.
Specific Target Organ Toxicity - Single Exposure	Not classified.
Specific Target Organ Toxicity - Repeated Exposure	Not classified.
Aspiration Hazard	Not classified.

Section 12: Ecological Information

Toxicity	Crustacea EC50 <i>Daphnia magna</i> 2000 mg/l, 48 hours
Persistence and Degradability	The product is not readily biodegradable
Bio-accumulative Potential	Not available
Mobility in Soil	Virtually insoluble in water. The product is not volatile.
Other Adverse Effects	May change the pH of receiving waters in case of major spillages.

Section 13: Disposal Considerations

Waste Treatment Methods Product	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste Treatment Methods Packaging	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	N/A

Section 15: Regulatory Information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No. SARA 302 Extremely hazardous Not listed. substance SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Not regulated. Safe Drinking Water Act (SDWA) Food and Drug Administration (FDA) US state regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. International Inventories Country(s) or region Inventory name On inventory (yes/no)* Australia Australian Inventory of Chemical Substances (AICS) Yes Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No China Inventory of Existing Chemical Substances in China (IECSC) No Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No. Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory of Chemicals and Chemical Substances Yes (PICCS) United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16: Other Information

Additional Information	HMS (USA): Health Hazard 1 Fire Hazard 1 Reactivity 0 Personal Protection E. NFPA (USA): Health-1, Flammability -1, Instability-0, Special Hazard-0.
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