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MATERIAL SAFETY DATA SHEET MSDS

ZINC STEARATE

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: ZINC STEARATE

2. COMPOSITION/INGREDIENT INFORMATION

Chemical Formula: Zn (C₁₈H₃₅CO₂)₂

Composition: Zinc stearate 100%

CAS #: 557-05-1

3. HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

Skin Absorption: May cause irritation with symptoms of redness, swelling, itching and pain.

Eye Contact: Eye contact may cause irritation with symptoms of redness, swelling, itching, tearing and pain.

Ingestion: May cause gastroenteritis (inflammation of the lining membrane of the stomach and intestines) with abdominal pain, nausea, vomiting and diarrhea.

Inhalation: May cause irritation to the respiratory tract.

4. FIRST AID MEASURES

Eyes: Flush with plenty of water or eye wash solution for 15 minutes.

WARM water MUST be used. Get medical attention if irritation persists.

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

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 collars, ties, belts or waistbands.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flammability of Product: Magnesium stearate may be combustible at high temperatures.

Auto Ignition Temperature: Not Available

Hazardous Combustion Products: CO, CO₂

Conditions Under Which Flammability Could Occur: Not Available

Extinguishing Media: Carbon Dioxide Dry Chemical Foam

Note: Do not use water jet.

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal Protection: N/A

Methods for Cleaning Up: Sweep up and dispose of in an appropriate waste disposal container according to local and regional Wash area with soap and water. authority requirements.

7. HANDLING AND STORAGE

Handling:

Safe Handling:

Wear safety glasses. Avoid contact with eyes.

Keep away from oxidizing agents, excessive heat and sources of ignition.

Empty containers pose a fire risk. Evaporate the residue under a fume hood.

Ground all equipment containing material.

Do not breathe dust.

Storage

Requirements for Storage Areas and Containers: Store Magnesium stearate in a cool, dry location, in a sealed container in a well ventilated area.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Use process enclosures. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Ensure that eyewash stations and safety showers are proximal to the work area.

Personal Protection:

Eye: Safety glasses should be worn.

Skin/Body: Lab coats, gloves.

Respiratory: Approved/certified dust respirator or equivalent.

Ventilation: Handle in well ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Zinc stearate is solid

Color: White

Odor: Neutral

Specific Gravity (H₂O = 1): 1.095

pH: Not Available

Melting Point: 140 °C (190.4 °F)

Solubility in Water: Slightly soluble in cold water.

10. STABILITY AND REACTIVITY

Stability: Magnesium stearate is stable

Conditions to Avoid: Not Available

Incompatibility (Materials to Avoid): Not Available

Hazardous Decomposition or Byproducts: Not Available

Hazardous Polymerization: Will Not Occur

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Ingestion

Toxicity to Animals: LD50: Not Available

LC50: Not Available

Chronic Effects on Humans: Magnesium stearate may cause damage to the following organs: Liver, Skin

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

Irritancy: Skin: Irritant

Eyes: Irritant

Carcinogenicity: Not Available

Reproductive Toxicity: Not Available

Teratogenic: Not Available

Mutagenic: Not Available

Notes: This substance may be toxic to liver, skin. Repeated or prolonged exposure to the substance can produce target organ damage.

12. ECOLOGICAL INFORMATION

Ecological Information: 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.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Do not put into sewer lines. Dispose of according to local, state regulations.

14. TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material.

Class/Division: Not restricted

Proper Shipping Name: N/A

Label: None

Packing Group: N/A

ID Number: N/A

Hazard: N/A

15. REGULATORY INFORMATION

Federal & State Regulations: California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Magnesium stearate

TSCA 8(b) inventory: Magnesium stearate

Other Regulations: Not Available

WHMIS Canada: Not controlled under WHMIS (Canada)

DSCL (EEC): This product is not classified according to the EU regulations.

HMIS (USA): Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (USA): Health Hazard: 1

Flammability: 1

Reactivity: 0

Specific Hazard:

Protective Equipment:

Gloves

Lab Coat

Dust respirator. Be Sure to use an approved/certified respirator or equivalent.

Safety Glasses