



Laysan Bio Inc.

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Company Name Laysan Bio Inc,
1560 Tower Drive Arab, Alabama 35016
Phone 256.586.9004
tech@laysanbio.com

Chemical Name: Carboxymethyl-Poly (Ethylene Glycol)-Thiol, Average MW 5000

Item Number: CM-PEG-SH-5000

Synonym: Thiol-PEG-carboxylate, Mercapto poly(ethylene glycol) carboxylic acid, Mercapto PEG acid, Thiol-PEG-acid

CAS-No: 165729-81-7 **Hazardous:** No

Recommended Use Laboratory R&D use not for use in humans

2. HAZARDS IDENTIFICATION

Hazards Statement May cause skin or eye irritation. If skin or eye irritation occurs seek medical attention.

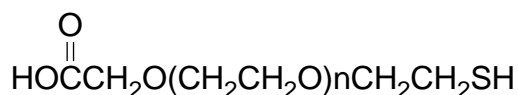
PREVENTION Avoid breathing dust Use adequate ventilation

Wash hands thoroughly after handling Wear appropriate protective gloves/clothing/eye and face protection

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: White to off white powder which may contain lumps

Components: Poly ethylene glycol **By Products:** NA



CM-PEG-SH Structure

4. FIRST AID MEASURES

If Inhaled-Move person to fresh air and keep at rest in position comfortable for breathing.

If not breathing call 911 and start artificial respirations

If Skin Contact Wash off with soap and water. Get medical attention if skin irritation occurs.

IF Eye Contact Remove contact lenses if easy to do. Rinse for at least 15 minutes with water. Consult physician if eye irritation occurs

If Swallowed Rinse out mouth with water. Consult a physician. Never give anything by mouth to an unconscious person.

Take off contaminated clothing and wash before reuse

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5. FIREFIGHTER MEASURES

Suitable Extinguishing Media May use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special Hazards Arising from the Substance or Mixture- carbon oxides

Advice for Firefighters- Wear self-contained breathing apparatus

NFPA Rating: Health Hazard: Flammability: 1 Reactivity: 0

HMIS Rating: Health Hazard: Fire Hazard: 1 Reactivity: 0

Flash Point: 182-287C

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment: Ensure adequate ventilation and remove all sources of ignition. Use appropriate safety glasses, lab coat and gloves.

Emergency Procedures: Sweep up without creating dust or dilute with water and mop up or absorb with inert dry material. Place in appropriate waste container.

Environmental Precautions- Keep in suitable closed waste container

Methods and Materials for Containment and Clean Up

Sweep up without creating dust or dilute with water and mop up. Dispose in an approved waste container.

7. HANDLING AND STORAGE

Precautions of Safe Handling Provide appropriate exhaust ventilation. Wear appropriate safety apparel. Avoid contact with eyes, skin and clothing. Do not breath in dust. Wash hands thoroughly after handling. Ensure access to a safety shower and eye bath.

Conditions for Safe Storage: Store in sealed container in a freezer at or below -10C

Incompatibilities: Incompatible with strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Workplace control parameters: Contains no substances with occupational exposure limit values. Ensure eye wash stations and safety showers are close to the work area location.

Exposure Control: Handle in accordance with good industrial hygiene and safety practice.

Personal Protective equipment: Wear appropriate safety glasses, lab coat, and protective gloves. Ensure adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White to off-white powder which may contain lumps, mild odor

Boiling Point, 760 mm Hg: Decomposes >200 °C

Specific Gravity (H₂O = 1): 1.08 AT 68 °F/20 °C

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Melting Point: 55-63 °C **Flash Point:** 182-287C
Vapor Density (AIR+1) N/A **Vapor Pressure:** Very Low
Density (AIR = 1): Range 1.0 to 1.2
Evaporation Rate (Butyl acetate = 1): N/A **Solubility:** Water

10. STABILITY AND REACTIVITY

Stability: Stable under recommended conditions of use and storage
Reactivity: N/A

11. TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity :N/A **Inhalation:** N/A **Dermal:** N/A
Skin corrosion/irritation: N/A **Serious eye damage/eye irritation:** N/A
Respiratory or skin sensitization: N/A **Germ cell mutagenicity:** N/A

Carcinogenicity

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: N/A **Specific target organ toxicity - single exposure:** N/A

Specific target organ toxicity - repeated exposure: N/A **Aspiration hazard:** N/A

12. ECOLOGICAL INFORMATION

Toxicity: N/A **Persistence and degradability:** N/A **Bio accumulative potential:** N/A

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: N/A

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.



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14. TRANSPORT INFORMATION

DOT(US) Not a DOT controlled material **IMDG** Not Dangerous Goods **IATA** Not Dangerous Goods

NON-HAZARDOUS RESEARCH MATERIAL; SAFE FOR AIR TRANSPORT

15. REGULATORY INFORMATION

SARA 302 Components: No chemicals in this material are subject to the reporting requirements

SARA 304 Emergency Release Notification: Not regulated

SARA 311/312 Hazards: No SARA hazards

SARA 313 TRI REPORTING: This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.

WHMIS (Canada) Not controlled

CLEAN AIR ACT SECTION 112 Hazardous Air Pollutants (HAPs): Not Regulated

CLEAN AIR ACT SECTION 112r Accidental Release Prevention (40 CFR 68.130) Not Regulated

Safe Drinking Water Act: Not Regulated

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not Regulated

CERCLA Hazardous Substance List (40 CFR 302.4) Not Listed

OSHA Specifically Regulated Substance (29 CFR 1910.1001-1050) Not Listed

16. OTHER INFORMATION

Document SDS-018.00

Date Issued: 3-2016

The above information is believed to be correct but does not purport to be all inclusive and should only be used as a guide. This information is offered for your information, consideration and investigation. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product and to assume liability for loss, injury, damage or expense due to use. Laysan makes no warranties either expressed or implied and assumes no responsibility for the accuracy of the data herein. You should satisfy yourself that you have all current data relevant to your particular use.