

PETER CREMER

NORTH AMERICA, LP

LC-810

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- **Material Name:** LC-810
- **Company Identification:**
Peter Cremer North America
3117 Southside Ave.
Cincinnati, OH 45204
1-513-471-7200
1-877-901-7262

Emergency Phone Number:

CHEMTREC 1-800-424-9300 U.S. and Canada
1-703-527-3887 for calls originating elsewhere

For Quality or Service Issues:
Call Customer Service
1-877-901-7262 or 513-471-7200

2. COMPOSITION & INGREDIENTS HAZARDS IDENTIFICATION

<u>Name:</u>	<u>CAS No.</u>	<u>EINECS NO.</u>	<u>Weight %</u>
Fatty Acids, C ₆₋₁₂	67762-36-1	N/A	100

3. HAZARDS IDENTIFICATION

- **Emergency Overview:** CAUTION: eye and skin irritant.
Avoid contact with eye, skin, and clothing. Wash thoroughly after handling.
- **Potential Health Effects:**
Eyes: May cause severe but transient eye irritation.
Skin: Prolonged skin exposure may cause severe irritation.
Inhalation: May elicit pulmonary irritation if mist or vapors are formed.
May cause coughing or difficult breathing.
Ingestion: May cause gastrointestinal irritation.
- **Physical/Chemical Hazards:** If product is heated, vaporization can occur.

<u>HMIS Ratings</u>	<u>NFPA Ratings</u>
Health: 0	Health: 0
Flammability: 0	Flammability: 0
Physical: 0	Instability: 0

PETER CREMER

NORTH AMERICA, LP

4. FIRST AID MEASURES

- **Eye –** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes holding eyelids apart. Seek medical attention as needed.
- **Skin –** Wash skin with soap and water upon contact. Exposed clothing should be changed promptly and cleaned before reuse. Get medical attention.
- **Inhalation –** If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical immediately.
- **Ingestion –** Remove material from mouth. Drink plenty of water. Do not induce vomiting. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

- **Suitable extinguishing media:** SMALL FIRES: Use Carbon dioxide or dry chemical.
LARGE FIRES: Use foam.
- **Unsuitable extinguishing media:** Do not use water as an extinguisher.
- **Other Fire Fighting Consideration:** Wear self-contained breathing apparatus and full protective clothing. Cool containers with flooding quantities of water until well after fire is out.
- **Hazardous Products of Combustion:** Thermal decomposition or burning may produce carbon monoxide and carbon dioxide

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear personal protection equipment. Avoid breathing vapors or mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- **Environmental Precautions:** Minimize contamination of drains, surface and ground waters.
- **Procedures for Spill/ Leak Clean-up:** Cover contaminated surface with soda ash or sodium bicarbonate. Mix. Flood with water and flush down drain. Wash site with sodium bicarbonate solution.

Dispose in compliance with Federal, State, and /or Local requirements.

7. HANDLING AND STORAGE

- **Handling:** Avoid contact with eyes, skin, and clothing. Since emptied containers retain product residue, follow label warnings even after container is emptied. Keep away from sources of ignition
- **Storage:** Keep away from possible contact with incompatible substances. Store in acid resistant vessels. Do not store near sources of ignition.

PETER CREMER

NORTH AMERICA, LP

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Personal Protective Equipment:

- **Eyes** – Goggles or face shield with goggles, dependent upon potential exposure.
- **Skin** – Dependent upon degree of potential exposure, additional personal protective equipment may be required, such as chemical boots and full protective clothing.
- **Inhalation** – Not required for ambient temperature. An appropriate NIOSH/MSHA approved air purifying respirator should be used if a mist or vapor is generated. A NIOSH/MSHA approved self contained breathing apparatus or air supplied respirator is recommended if the concentration exceeds the capacity of the cartridge respirator. **WARNING:** air purifying respirators do not protect workers in oxygen-deficient atmospheres.
- **Hands** – Protective Gloves: Rubber or plastic
- **Other controls-** Boots, eye wash fountain, safety shower, apron, protective clothing.

Engineer Controls- Use local exhaust ventilation.
Mechanical – may be necessary if working at elevated temperatures or in enclosed areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Color: Water white to light yellow

Odor: Musty, Pungent.

Odor Threshold: Not available.

Vapor Density: Not available.

Flash Point: 275°F (135°C) PMCC

Flammability (Lower and Upper): Not available

Relative Density @ 22/22°C: 0.9

Evaporation Rate: Not available.

VOC: Not available.

Boiling Point @ 760 mm Hg (101.3kPa):
> 450° F (> 232.2° C)

Melting Point: Not available.

Freezing Point: Not available.

Vapor Pressure @ 72°F (22°C): <1 mm Hg

pH: Not available.

Solubility in Water@ 72°F (22°C): Negligible

Specific Gravity: Not available.

Partition of coefficient (n-octanol/water): Not available

Auto-ignition Temperature: Not available.

Decomposition Temperature: Not available.

10. STABILITY AND REACTIVITY

- **Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Does not decompose up to 400°F (204°C). Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.
- **Hazardous Polymerization:** Does not occur.

PETER CREMER

NORTH AMERICA, LP

11. TOXICOLOGICAL INFORMATION

- **Toxicological Data:**

- **Product**

- Fatty Acid, C₆₋₁₂ (67762-36-1)

- **Constituents**

- Octanoic Acid (124-07-2)

- Decanoic Acid (334-48-5)

- **Impurities**

- Dodecanoic Acid (143-07-7)

- **Test Results**

- Dermal Human: 2.3 4h Primary Irritation Index. Degree of Irritancy: Moderate.

- Dermal Guinea Pig: 0.5 4h Primary Irritation Index. Degree of Irritancy: Slight.

- Dermal Rabbit: 4.5 4h Primary Irritation Index. Degree of Irritancy: Moderate.

- Acute Oral LD50 Albino rat: 12.6 g/kg of body weight

- **Test Results**

- Acute Dermal LD50 Rabbit: >5 g/kg

- Acute Oral LD50 Rat: >10 g/kg

- Acute Dermal LD50 Rabbit: >5 g/kg

- Acute Oral LD50 Rat: >10 g/kg

- **Test Results**

- Oral LD50 Rat: 12 g/kg

- Other Rabbit: 72h Corneal opacity, mild conjunctivitis, Iritis-observation

- **Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

- **Further Information**

Eye Irritation: Rabbits

Undiluted LC-810 with no rinsing of the eyes produced sever ocular damage whereas rinsing of the eyes with water after instillation of the test material reduced involvement to mild to moderate but transient irritation.

Eye Irritation: Monkeys

Undiluted LC-810, with no rinsing of the eyes with water after instillation, produced superficial corneal effects and rather severe congestion of the conjunctiva. All eyes were normal within nine days after instillation of the test material.

PETER CREMER

NORTH AMERICA, LP

12. ECOLOGICAL INFORMATION

- **Ecotoxicological Data:**

Product

Fatty Acids, C₆₋₁₂ (67762-36-1)

Constituents

Octanoic Acid (124-07-2)

Decanoic Acid (334-48-5)

Impurities

Dodecanoic Acid (143-07-7)

Test Results

COD Value-2.0g O₂/g of product

LC50 Bluegill (*Lepomis macrochirus*): 28.2 mg/l 96h

NOEC Bluegill (*Lepomis macrochirus*): 10 mg/l

Test Results

EC50 Green Algae (*Nitzschia closterium*): 144 mg/l 72h

EC50 Water Flea (*Daphnia magna*): 550 mg/l 24h

LC50 Red Killifish (*Oryzias latipes*): 57 mg/l 96h freshwater.

LC50 Bluegill (*Lepomis macrochirus*): 39.9 mg/l 96h

LC50 Ide, silver or golden orfe (*Leuciscus idus*): 173 mg/l 48h

LC50 Red Killifish (*Oryzias latipes*): 105 mg/l 96h in seawater

Microbial Inhibition: None at 10,000 mg/l

LC50 Bluegill (*Lepomis macrochirus*): 18.9 mg/l

LC50 Gammarus (*Hyale plumulosa*): 41 mg/l

LC50 Red Killifish (*Oryzias latipes*): 20 mg/l in freshwater

LC50 Red Killifish (*Oryzias latipes*): 31 mg/l in seawater

NOEC Bluegill (*Lepomis macrochirus*): 10 mg/l

Test Results

EC50 Algae (*Pseudokircheneriella subcapitata*): >6.2 mg/l 72h

EC50 Gammarus (*Hyale plumulosa*): 8.6 mg/l 48h

LC50 Bluegill (*Lepomis macrochirus*): 63.3 mg/l 96h

LC50 Red Killifish (*Oryzias latipes*): 8.6 mg/l 96h

NOEC Algae (*Pseudokircheneriella subcapitata*): 3.4 mg/l 72h

NOEC Bluegill (*Lepomis macrochirus*): 32 mg/l

13. DISPOSAL CONSIDERATIONS

DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATION. Do not dispose of via sinks, drains or into the immediate environment.

14. TRANSPORT INFORMATION

- U.S. DOT: Not regulated as dangerous goods.

15. ADDITIONAL REGULATORY INFORMATION

- **Inventory Status:**

TSCA (US/Puerto Rico), NDSL (Canada), IECSC (China), EINECS (EU), KECI (Korea),

NZIoC (New Zealand), PICCS (Philippines).

16. OTHER INFORMATION

IMPORTANT: The information on product provided herein, while believed to be accurate and reliable, is given without guarantee or warranty of any kind expressed or implied. Any implied warranties of merchantability and fitness for purposes are expressly disclaimed. Purchaser assumes all risk in acting on this information or any information provided by Peter Cremer N.A. representatives. Individual requirements may vary, and each purchaser is urged to perform its own tests, experiments and investigations in the use of Peter Cremer N.A. products for purposes of determining efficacy for the intended use and for purposes of determining compliance with applicable Federal, State and local laws and regulations. Nothing contained herein shall be construed as a recommendation to use any product in connection with existing patents covering any material or its use. Moreover, no license is to be implied under any patents relating to uses of the above described chemicals other than those uses specifically referenced herein.