

PETER CREMER

NORTH AMERICA, LP

LC-898

MATERIAL SAFETY DATA SHEET

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

- **Material Name:** LC-898
- **Synonyms/Trade Names:** Caprylic Acid.
- **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>
Octanoic Acid	124-07-2	N/A	98-100

3. HAZARDS IDENTIFICATION

- **Emergency Overview:** DANGER- Corrosive
Concentrated product causes severe burns.
- **Potential Health Effects:** **Eyes:** Causes severe or permanent damage.
Skin: Causes burns.
Inhalation: Not applicable at ambient temperature. Vapor causes irritation.
May cause coughing or difficult breathing.
Ingestion: Causes burns to mucous membranes.
- **Physical/Chemical Hazards:** **If product is heated,** vaporization can occur. Eye, skin, and upper respiratory irritation/burns expected to occur.

<u>HMIS Ratings</u>	<u>NFPA Ratings</u>
Health: 0	Health: 0
Flammability: 1	Flammability: 1
Physical Hazard: 2	Instability: 0

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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. Remove contaminated clothing. Wash clothing before reuse. Destroy contaminated shoes. Get medical attention if any sensations occur.
- **Inhalation –** Remove to fresh air. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical immediately.
- **Ingestion –** Remove material from mouth. Do not induce vomiting. Get medical attention immediately. If person is fully conscious, give cupful of water. Never give anything by mouth to a person who is unconscious or having convulsions.

5. FIRE FIGHTING MEASURES

- **Suitable extinguishing media:** SMALL FIRES: Use Carbon dioxide or dry chemical.
LARGE FIRES: Use foam.
- **Unsuitable extinguishing media:** Not established.
- **Personal Equipment:** Wear self-contained breathing apparatus and full protective clothing.
- **Other Fire Fighting Consideration:** 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.
- **Environmental Precautions:** Minimize contamination of drains, surface and ground waters.
- **Procedures for Spill/Leak Clean-up:** Soak up with absorbent such as dry earth, sand or other non-combustible material and transfer to containers for disposal. Residues and small spillage may be washed away with water and detergent OR 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. Store in original tightly closed container. For quality reasons: avoid elevated temperatures.

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8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Personal Protective Equipment:

- **Eyes** – Goggles or face shield with goggles, dependent upon potential exposure.
- **Skin** – Protective work clothing. Immediately remove contaminated 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 concentrations 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**- Apron, Boots, Eye wash fountain and emergency showers are recommended.

Engineer controls: Local Exhaust is recommended.
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, Rancid.

Odor Threshold: Not available.

Vapor Density: Not available.

Flash Point: 276°F (135.6°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

- **Chemical Stability:** Stable under normal conditions.
- **Conditions to Avoid:** None known.
- **Materials 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.

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11. TOXICOLOGICAL INFORMATION

- **Toxicological Data:**

- **Product**

- Octanoic Acid (124-07-2)

- **Impurities**

- Hexanoic Acid (142-62-1)

- Decanoic Acid (334-48-5)

- **Test Results**

- Acute Dermal LD50 Rabbit: >5 g/kg

- Acute Oral LD50 Rat: >10 g/kg

- **Test Results**

- Dermal MLD Rabbit: 10 mg 24h Open

- Other Rabbit: 695 ug Eye-SEV

- Acute Dermal LD50 Rabbit: 630 mg/kg

- Acute Oral LD50 Rat: 3000 mg/kg

- Acute Dermal LD50 Rabbit: >5 g/kg

- Acute Oral LD50 Rat: >10 g/kg

12. ECOLOGICAL INFORMATION

- **Ecotoxicological Data:**

- **Product**

- Octanoic Acid (124-07-2)

- **Impurities**

- Hexanoic Acid (142-62-1)

- Decanoic Acid (334-48-5)

- **Test Results**

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

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

- LC0 Red Killifish (Oryzias latipes): 57 mg/l 96h in 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

- **Test Results**

- LC50 Daphnia: 22 mg/l 24h

- LC50 Fathead Minnow (Pimephales promelas): 88 mg/l 96h

- 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

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

- **DOT**

- **Basic Shipping Requirements:**

- **UN Number** 3265

- **Proper Shipping Name** Corrosive liquid, acidic, organic, n.o.s (OCTANOIC ACID)

- **Hazard Class** 8

- **Packing Group** III

- **Additional Information:**

- **ERG Number** 153

15. ADDITIONAL REGULATORY INFORMATION

- **Inventory Status:**

- TSCA (US/Puerto Rico), AICS (Australia), DSL (Canada), IECSC (China), EINECS (EU), ENCS (Japan), ECL (Korea), NZIoC (New Zealand), PICCS (Philippines).

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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.