



Section 1. Product and Company Identification

Product Name Caprylic-Capric Acid
CAS Number 67762-36-1

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

Classified as a hazardous substance or mixture according to OSHA Hazard Communication Standard 1910.1200.

GHS Label Elements

Pictograms:



Signal word: Warning

Hazard and precautionary statements

Precautionary Statements

Handling: Handle in accordance with good hygiene and safety procedures. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Since empty containers contain product residue and can be dangerous, follow all hazard warnings and precautions 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 such as stainless steel, aluminum, or steel coated with resin lining such as Lithcote LC-19 or Kanigen. Do not store near sources of ignition.

In Case of Fire

Small Fires: Use CO₂ or dry chemical.

Large Fires: Use foam



First Aid

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

Skin: Wash skin with soap and water upon contact. Exposed clothing should be changed promptly and cleaned before reuse. Get medical attention

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Ingestion: Remove material from mouth. Drink plenty of water. Do not induce vomiting. Obtain medical attention immediately.

Emergency Overview

CAUTION: Eye and skin irritant.

Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

Potential Health Effects

Eye: 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. If product is heated, vaporization can occur. Eye, skin, and upper respiratory irritation can occur.

Physical/Chemical Hazards: None identified.

Environmental Hazards: None identified.

Section 3. Composition / Information on Ingredients

Common Name Caprylic-Capric Acid

CAS Number 67762-36-1

COMPONENT	CAS NUMBER	CONCENTRATION
Fatty Acids, C6-12	67762-36-1	100%
Hexanoic acid	142-62-1	2 – 6%
Octanoic acid	124-07-2	53 – 60%
Decanoic acid	334-48-5	34 – 42%
Dodecanoic acid	143-07-7	0 – 2%

Section 4. First Aid Measures

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin: Wash skin with soap and water upon contact. Exposed clothing should be changed promptly and cleaned before reuse. Get medical attention.

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



Ingestion: Remove material from mouth. Drink plenty of water. Do not induce vomiting. Obtain medical attention immediately.

Section 5. Firefighting Measures

Extinguishing media

Small Fires: Use CO₂ or dry chemical.

Large Fires: Use foam.

Unsuitable extinguishing media: Do not use water as an extinguishing media.

Flash Point and method: 275°F (135°C) PMCC

Explosive limits in air

Upper: Not available

Lower: Not available

Auto-ignition temperature: Not available

Sensitivity to mechanical impact/static discharge: Not available

Special Protective Equipment: Wear self-contained breathing apparatus and full protective clothing.

Other Fire Fighting Considerations: Cool containers with flooding quantities of water until well after fire is out.

Exposure hazards: Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.

Section 6. Accidental Release Measures

Personal Precautions: An appropriate NIOSH/MSHA approved respirator should be used if a mist or vapor is generated. Wear suitable gloves and eye/face protection. 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. Refer to Section 8 for additional personal protection information. Refer to Section 13 for disposal considerations.

Section 7. Handling and Storage

Handling: Handle in accordance with good hygiene and safety procedures. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Since empty containers contain product residue and can be dangerous, follow all hazard warnings and precautions 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 such as stainless steel, aluminum, or steel coated with resin lining such as Lithcote LC-19 or Kanigen. Do not store near sources of ignition. Refer to Section 6 for clean-up of spillages. Refer to Section 13 for disposal considerations.

Section 8. Exposure Controls / Personal Protection

General Precautions: Good industrial hygiene practices should be followed. Avoid breathing (heated) vapors. Avoid eye and skin contact.

Exposure Limit Values: Not established.

Exposure Controls

Engineering Controls: Ventilation: Local exhaust - preferred

Mechanical - may be necessary if working at elevated temperatures or in enclosed areas.

Personal Protective Equipment

Eye: Goggles or face shield with goggles, dependent upon potential exposure.

Skin: Protective gloves: Rubber or plastic

Dependent upon degree of potential exposure, additional personal protective equipment may be required, such as chemical boots and full protective clothing.

Inhalation: None required for ambient temperature, although 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 cartridge respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen deficient atmospheres.

Section 9. Physical and Chemical Properties

General Information

Physical State at 72°F (22°C): Liquid

Appearance: Water white to light yellow

Odor: Musty, pungent

Odor Threshold: Not available

Important health, safety and environmental information

pH: Not available

Boiling point/Boiling range: > 450°F (> 232°C) at 760 mm Hg (101.3kPa)

Flash Point & Method: 275°F (135°C) PMCC

Flammability (solid, gas): Not available

Explosive properties: Not available

Oxidizing properties: Not available

Vapor pressure: At 72°F (22°C) < 1 mm Hg

Relative density: 0.9 at 22/22°C

Freezing point: Not available



Water solubility: Negligible at 72°F (22°C)
Fat solubility (solvent-oil to be specified): Not available
Partition coefficient: n-octanol/water: Not available
Viscosity: Not available
Vapor density: Not available
Evaporation Rate (nBuOAc=1): Not available
Explosive Limits: Not available
Auto ignition temperature: Not available
Coefficient of water/oil distribution: Not available

Section 10. Stability and Reactivity

Stability: Stable under normal operational conditions.
Conditions to Avoid: Not available.
Materials to Avoid: 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: Will not occur.

Section 11. Toxicological Information

Acute Oral Toxicity (Rats)

The LD50 for albino rats was 12.6 gm/kg of body weight.

Eye Irritation (Rabbits)

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

Eye Irritation (Monkeys)

Undiluted C-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.

Skin Irritation (Four-Hour Test)*

Primary Irritation Index Degree of Irritancy

Rabbits 4.5 Moderate

Guinea Pigs 0.5 Slight

Humans 2.3 Moderate

* "Interspecies Comparisons of Skin Irritancy", by G. A. Nixon, C. A. Tyson and W.C. Wertz;
Tox. & Appld. Pharm. 31: 481-490 (1975)



Section 12. Ecological Information

C-810 Fatty Acid

Bluegills 96h LC50 28.2 mg/l

NOEC 10 mg/l

OD Value: 2.0 g O₂/g of product

The following is data on the individual components

Hexanoic acid

Fathead minnow 96h LC50 88 mg/l

Red killifish LC50: in seawater 235 mg/l in freshwater 80 mg/l

Daphnia magna 24h LC50 22 mg/l

Gammarus 96h LC50 235 mg/l

Octanoic acid

Daphnia magna 24h EC50: 550 mg/l

Leuciscus idus 48h LC50: 173 mg/l

Red killifish 96h LC50: in seawater 105 mg/l in freshwater 57 mg/l

Bluegill sunfish 96h LC50 39.9 mg/l

Algae

Nitzschia closterium 72h EC50 144 mg/l

Decanoic acid

Bluegills 96h LC50 18.9 mg/l

NOEC 10 mg/l

Red killifish 96h LC50: in seawater 31 mg/l in freshwater 20 mg/l

Gammarus 96h LC50 41 mg/l

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

U.S. DOT: Not regulated for transport

Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA - DGR

Section 15. Regulatory Information

Inventory Status: TSCA (USA), NDSL (Canada)*, China, EINECS (EU), Korea, Philippines

*Individual components of mixture are listed on DSL.



Canada

Hazardous Ingredients-WHMIS (Canadian Workplace Hazardous Materials Information System)

This product when tested as a whole is considered a controlled substance , Class D, Division 2, Subdivision B (skin and eye irritant, toxic) within the meaning of the Hazardous Products Act. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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