



Safety Data Sheet (Caproic Acid)

DATE PREPARED: 6/26/2014
REVISION NUMBER: 6/26/2014

Section 1 – Company Information

Parchem - fine & specialty chemicals

415 Huguenot Street

New Rochelle, NY 10801

(914) 654-6800 (914) 654-6899

parchem.com info@parchem.com

EMERGENCY RESPONSE NUMBER:

CHEMTEL - Parchem CCN# M1S0007152

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

All other Origins: (813) 248-0585

Collect Calls Accepted

Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME Caproic Acid
CAS NUMBER 142-62-1
SYNONYM Hexanoic Acid
FORMULA $C_6H_{12}O_2$

PRODUCT	CAS NUMBER	% BY WEIGHT
Caproic Acid	142-62-1	≥ 98.0%

Section 3 – Hazards Identification

Irritating to eyes (R36), and skin (R38), harmful in skin contact (R21), causes burns (R34)
Corrosive

Section 4 – First Aid Measures

Ingestion: Rinse mouth, drink plenty of water, see physician. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting.

Eye Contact: Flush with water for at least 15 minutes, get medical attention if necessary.

Skin Contact: Remove contaminated clothing, flush skin with water and soap or shower; Take to doctor if sensations occur. Wash clothing separately before reuse. Destroy contaminated shoes.

Inhalation: Move to fresh air, if breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Section 5 – Fire Fighting Measures

Extinguishing Media

Small Fire: Dry powder, carbon dioxide

Large Fire: Foam

Protection for Firefighters

Specific Hazards arising from Chemical: Thermal decomposition or burning may produce carbon monoxide and or carbon dioxide.

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

Specific Methods: Cool containers with flooding quantities of water until well after fire is out.



Section 6 – Accidental Release Measures

Personal Precautions: An appropriate NIOSH/MSHA approved respirator should be used if a mist, vapor or dust is generated. Wear suitable protective clothing, gloves and eye/face protection. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environment Precautions: Minimize contamination of drains, surface and ground waters.

Clean-Up Method: Soak up with sand or other inert absorbent and collect into suitably labeled containers for disposal. Residues and small spillages 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.

Section 7 – Handling & Storage

Handling: Avoid open flames and sources of ignition.

Avoid contact with eyes, skin, and clothing. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Storage: Keep away from possible contact with incompatible substances. Store in acid resistant vessels such as plastic. In bulk, store at about 10°C above melting point or ambient. Store in closed original container in a dry place. Avoid elevated temperatures for quality assurance.

Section 8 – Exposure Controls & Personal Protection

Personal Protective Equipment

Hand/Skin Protection: Wear rubber or plastic gloves.

Eye Protection: Wear approved safety goggles and face shield.

General: Avoid breathing (heated) vapors.

Depending on Degree of Potential Exposure: Boots, apron, eye wash fountain and emergency showers are recommended. Wear suitable protective clothing.

Industrial Hygiene: Normal standard of industrial hygiene to be observed.

Engineering Controls: Local exhaust is recommended. Mechanical may be needed if working at elevated temperatures or in enclosed areas.

Section 9 – Physical & Chemical Properties

Appearance: Liquid, yellow to light brownish, clear

Odor: Light, unpleasant

Solubility (22°C/72°F): Solubility in water 1%; Soluble in ethanol, ether/most organic solvents

Boiling Point (760 mmHg/101.3 kPa): 205°C/401°F

Melting Point: -4°C/24.8°F

Freezing Point: Not available



Flash Point (Pensky-Martens Closed Cup): > 102°C/215.6°F

Auto-Ignition: > 250°C/482°F

Density: 0.92 g/mL

Vapor Pressure (22°C/72°F): < 1.0 mmHg

% Volatiles: Not known

Evaporation Rate: < 0.01

Vapor Density: 4.0 (relative, air = 1)

Flammable Limit: Not known

Section 10 – Stability & Reactivity Data

Chemical Stability: Stable at normal conditions.

Conditions to Avoid: Avoid direct fire, extreme heat or cold

Decomposition Products: None known if used for intended purpose.

Hazardous Polymerization: Does not occur.

Materials to be Avoided: None known if used for intended purpose

Section 11 – Toxicological Information

Acute Toxicity

LD50 Oral - Mouse - 5,000 mg/kg

LC50 Inhalation - Mouse - 2 h - 4,100 mg/m³

LD50 Dermal - Rabbit - 584 mg/kg

Irritation and Corrosion

Eyes - rabbit - Severe eye irritation

Sensitization

Chronic Exposure

IARC: No component of this product present 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.

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache, Nausea



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Potential Health Effects

Inhalation: Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin: Toxic if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Ingestion: May be harmful if swallowed. Causes burns.

Section 12 – Ecological Information

Aquatic Toxicity: Acute fish toxicity: 80 mg/l in fresh water, 235 mg/l in salt water

Section 13 – Disposal Consideration

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

Section 14 – Transportation Data

DOT Basic Shipping Requirements

UN Number: UN2829

Proper Name: Caproic acid

Hazard Class: 8

Packing Group: III

Additional Information

Special Provisions: IB3, T4, TP1

Packaging Exceptions: 154

Packaging Non Bulk: 203

Packaging Bulk: 241

Section 15 – Regulatory Information

All components of the product are listed on the US EPA TSCA Inventory List, Canada DSL, Europe EINECS/ELINCS, and Australia AICS.

CERCLA (Superfund) Reportable Quantity: None

Superfund Amendments & Reauthorization Act OF 1986 (SARA)

Hazard Categories

Immediate Hazard: No

Delayed Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: Yes



Section 302 Extremely Hazardous Substance: No

Section 311 Hazardous Chemical: No

Inventory Status: Yes indicates all components of this product comply with the inventory requirements administered by the governing country (s).

Australian Inventory of Chemical Substances (AICS): Yes

Domestic Substances List (DSL): Yes

Non-Domestic Substances List (NDSL): No

Inventory of Existing Chemical Substances in China (IECSC): Yes

European Inventory of Existing Commercial Chemical Substances (EINECS): Yes

European List of Notified Chemical Substances (ELINCS): No

Inventory of Existing and New Chemical Substances (ENCS): Yes

Existing Chemicals List (ECL): Yes

New Zealand Inventory: Yes

Philippine Inventory of Chemicals and Chemical Substances: Yes

Toxic Substances Control Act (TSCA) Inventory: Yes

State Regulations

US California Proposition 65

Carcinogens & Reproductive Toxicity (CRT): Contains no California Prop 65 chemicals.

HMIS Classification

Health Hazard: 3

Flammability: 1

Physical Hazards: 0

NFPA Rating

Health Hazard: 3

Fire: 1

Reactivity Hazard: 0

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.