



MAGNAKRON

SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification

Product Name	Capric Acid
Trade Name	COPRAC-1098
IUPAC Name	Decanoic Acid
Synonyms	Decylic acid, n-decanoic acid, n-capric acid, C10 fatty acid
Chemical formula	C ₁₀ H ₂₀ O ₂
CAS Number	334-48-5
EC Number	206-376-4
Product use	Manufacture of perfumes, lubricants, greases, rubber, dyes, plastics, food additives, pharmaceuticals
Recommended Restrictions	Not available
Company information	Magnakron Corporation 300 Rike Drive Millstone Township, NJ 08535 732-928-5800 Info@magnakron.com
24 Hour Emergency Response Information	Chemtrec: 1-800-424-9300
Chemtrec number	CCN620540

Section 2: Hazards identification

GHS Classification of the Substance	Category 2, H315
Skin corrosion / irritation	 GHS07
Pictogram	Warning
Signal word	
Serious eye damage / eye irritation	Category 1, H318
Pictogram	 GHS05
Signal word	Danger
Chronic aquatic toxicity	Category 4, H412
Hazard Statements	
Physical Hazard	H290 May be corrosive to metals
Health Hazard	H315 Causes skin irritation H318 Causes serious eye damage
Environmental Hazard	H412 Harmful to aquatic life with long-lasting effects.



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Precautionary Statements

Prevention

P261 Avoid breathing dust, fumes, gas, mist, vapors, or spray.
P264 Wash hands, forearm, and exposed areas thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, face protection.

Response

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P306 + P360: IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention immediately.
P391 Collect spillage.

Storage

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

Disposal

P501 Dispose of contents and container to an approved waste disposal facility.

Section 3: Composition/information on ingredients

Components		CAS No.	Percentage, %
Fatty Acids, C8-12		334-48-5	100

Constituents		CAS No.	Percentage, %
Decanoic acid	 Skin Irrit. 2, H315, Eye Dam.1, H318	334-48-5	> 98
Octanoic acid	 Skin Corr. 1C, H314, Eye Dam.1, H318	124-07-2	< 2
Dodecanoic acid	 Skin Irrit. 2, H315, Eye Irrit. 2A, H319	143-07-7	< 2

Section 4: First aid measures

First aid procedures

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.



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Eye	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Immediate medical attention is required.
Ingestion	Remove material from mouth. Rinse / Drink plenty of water. Do not induce vomiting. Obtain medical attention immediately. For sore throat or abdominal pain, see a physician.
Most important symptoms and effects	Ingestion causes severe swelling, sore throat and abdominal pains. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.
Notes to physician	Treat symptomatically.

Section 5: Firefighting measures

Suitable extinguishing media	SMALL FIRES: Use CO ₂ or dry chemical. LARGE FIRES: Use alcohol resistant foam.
Specific hazards arising from the chemical	The product is a skin and eye irritant.
Hazardous combustion products	Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide. (Hazardous reactions will not occur under normal conditions.)
Protective equipment and precautions for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves).

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	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 gloves and clothing. Keep unprotected persons away. Ventilate the area.
Environmental precautions	Prevent entry to drains, surface and ground waters. Collect spillage.
Methods for containment & cleaning up	Ensure adequate ventilation of the area. Cover contaminated surface with soda ash or sodium bicarbonate. Mix. Collect. Dispose material collected according to government regulations.



Section 7: Handling and storage

Precautions for safe handling

Use only under a chemical fume hood.
Handle in accordance with good industrial hygiene and safety procedures.
Avoid contact with eyes, skin, and clothing.
Do not breath mist or vapors.
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.

Conditions for safe storage

Keep away from possible contact with incompatible substances like inorganic acids, caustics, amines, aldehydes...
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

Recommended monitoring procedures

Ventilation: Local exhaust - preferred Mechanical – maybe necessary if working at elevated temperatures or in enclosed areas.

Appropriate engineering controls

Work under a chemical fume hood. Eyewash stations and emergency showers are close to the work areas.
Provide mechanical ventilation for confined spaces. Use explosion-proof ventilation equipment.

General protective and hygienic measures

Keep away from foodstuffs, beverages and feeds.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Personal protective equipment

Eye / face protection



Wear tight sealing safety goggles or face shield with goggles, dependent upon potential exposure.

Skin protection



Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection



Suitable respiratory protective device is recommended.

Hand protection



Wear acid-resistant gloves.



Section 9: Physical and chemical properties

Appearance	Crystalline
Color	Off-white to white
Odor	Musty, pungent
pH	No data available
Melting point/Freezing point	31°C (87.8°F)
Boiling point	269°C (516.2°F)
Flash point	>140 °C (Pensky-Martens closed-cup)
Evaporation rate	No data available
Flammability or explosive limits in air,	
Lower, % by volume	No data available
Upper, % by volume	No data available
Vapor pressure	<7.5 x 10 ⁻⁴ mm Hg @ 20°C g
Vapor density	No data available
Relative density	< 1.0 @ 20 °C at saturated mixture vapour/air (air=1)
Solubility	Soluble in acetone. Very slightly soluble in methanol, diethyl ether, n-octanol. Insoluble in cold water.
Solubility (H₂O)	0.15 g/l@ 20° C
N-Octanol/H₂O partition coefficient	4.09
Auto-ignition temperature	>250 °C
Decomposition temperature	No data available
Viscosity, dynamic	5.37 mPa.s @ 40°C
Specific Gravity	0.893 (Water = 1)

Section 10: Stability and reactivity

Chemical stability	Stable under normal operational conditions.
Possibility of hazardous reactions	Reacts with oxidizing agents.
Conditions to avoid	Keep away from sources of ignition.
Materials to avoid	Strong alkalis and strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.

Section 11: Toxicological Information

Acute toxicity	Oral (rat): LD50 > 10000mg/kg body weight Dermal (rabbit):LD50 > 5000mg/kg body weight
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Skin corrosion/irritation

Primary skin irritation (rabbit): Irritating

Serious eye damage/irritation

Highly irritating

Section 12: Ecological Information

Aquatic Toxicity

Acute fish toxicity: LC 50 > 100 mg product/l.
Acute bacteria toxicity: EC 50 > 100 mg product/l.
Daphnia magna EC 50 > 65mg/l
Algae EC 50=0.002mmol/L

Persistence and degradability

Readily biodegradable

Bioaccumulative potential

Log Pow = 4.09

Section 13: Disposal Considerations

Disposal instructions

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

Contaminated packaging

Dispose of according to local or national government regulations.

Section 14: Transport Information

DOT

Not a DOT controlled material

Basic shipping requirements:

UN number

Not applicable

Proper shipping name

Not applicable

Technical name

Not applicable

Hazard class

Not applicable

Packing group

Not applicable

Additional information:

ADR / RID item number

Not applicable

ANDR class

Not applicable

Special provisions

Not applicable

Packing exceptions

Not applicable

Packaging non bulk

Not applicable

Packaging bulk

Not applicable

ERG number

Not applicable

Hazard ID

Not applicable



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Section 15: Regulatory Information

US federal regulations	No information available
CERCLA (Superfund) reportable quantity	No information available
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Hazard categories	No information available
Section 302 extremely hazardous substances	No information available
Section 311 hazardous chemical	No information available

Section 16: Other Information

HMIS® ratings

Health Hazard: 2
Fire Hazard: 1
Reactivity: 0
Personal Protection: E



NFPA ratings

Health: 2
Flammability: 1
Reactivity: 0



Disclaimer

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