


SAFETY DATA SHEET

1. Identification

GHS product identifier	C-899
SDS number	LC128
Product Code	99401576
Version #	04
Issue date	04-14-2010
Revision date	05-16-2014
Supersedes date	04-17-2014
Product use	Production of cutting oils, specialty soaps, and chain terminators. Intermediate.
Recommended Restrictions	Not available.
Synonym(s)	CAPRYLIC ACID
Manufacturer	The Procter & Gamble Company Procter & Gamble Chemicals Sharon Woods Innovation Center 11530 Reed Hartman Highway Cincinnati, OH 45241 United States For Quality Service or Product Related Questions Call: 1-800-477-8899 PGChemMSDS.IM@pg.com For Emergency Contact CHEMTREC: 1-800-424-9300 U.S. and Canada For Calls Originating Elsewhere CHEMTREC: 1-703-527-3887

2. Hazards identification

GHS classification	
Physical hazards	Not classified.
Health hazards	Skin corrosion/irritation Category 1B
Environmental hazards	Not classified.
GHS label elements	
Signal words	Danger
Symbols	
Hazard statement	Causes severe skin burns and eye damage.
Precautionary statement	
Prevention	Do not breathe dust or mist. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	Store locked up.

3. Composition/information on ingredients

Components	CAS #	Percent
OCTANOIC ACID	124-07-2	99 - 100

4. First aid measures

First aid procedures

Eye	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash clothing separately before reuse.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Notes to physician Not available.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Dry chemical or CO2. Water spray. Foam.
Unsuitable extinguishing media	Do not use water jet.

Protection of firefighters

Specific hazards arising from the chemical	In combustion emits toxic fumes of carbon dioxide/carbon monoxide.
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Fire fighting equipment/instructions Wear self-contained breathing apparatus and protective clothing.

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

6. Accidental release measures

Personal precautions Wear appropriate protective equipment and clothing during clean-up. An appropriate NIOSH/MSHA approved respirator should be used if a mist, vapor or dust is generated.

Environmental precautions Minimize contamination of drains, surface and ground waters.

Methods for containment Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

7. Handling and storage

Handling Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust or mist. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.

Storage Keep away from possible contact with incompatible substances. Store in a tightly closed container. Store locked up.

8. Exposure controls / personal protection

Engineering controls Local exhaust is recommended.
Mechanical - may be necessary if working at elevated temperatures or in enclosed areas.

Personal protective equipment

Eye/face protection	Goggles or face shield with goggles, dependent upon potential exposure.
Skin protection	Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection	When respiratory protection is required, wear a NIOSH/MSHA approved self-contained breathing apparatus with full facepiece operated in a positive-pressure mode.
General hygiene considerations	Observe good industrial hygiene practices.
Environmental exposure controls	Contact Procter and Gamble for specific Community information.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Color	Colorless to light yellow.
Form	Liquid.
Odor	Musty. Rancid.
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	62.1 °F (16.7 °C)
Boiling point	458.6 °F (237 °C)
Flash point	276.08 °F (135.60 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Flammability limits in air, lower, % by volume	Not available.
Flammability limits in air, upper, % by volume	Not available.
Vapor pressure	0.00371 mm Hg at 25 °C
Vapor density	Not available.
Relative density	0.91 g/cm ³ at 20 °C
Solubility (H₂O)	789 mg/l at 30 °C
Partition coefficient (n-octanol/water)	See Section 12
Auto-ignition temperature	> 572 °F (> 300 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other data	
Dissociation constant	5.2 - 5.3 pKa at 20 °C
Dynamic viscosity	6.59 - 6.8 mPa.s
Surface tension	28.61 - 28.74 mN/m at 20 °C

10. Stability and reactivity

Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Overheating.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.

11. Toxicological information

Toxicological data

Components	Species	Test Results
OCTANOIC ACID (124-07-2)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, bw. OECD 434. Read-across 57-11-4.
Inhalation		
LC50	Rat	> 0.1521 mg/l, 4 hours, IHT.
Oral		
LD50	Rat	> 2000 mg/kg, bw. OECD 401.
General information	Not available.	
Information on likely routes of exposure		
Ingestion	Not classified.	
Inhalation	Not classified.	
Skin contact	Causes severe skin burns.	
Eye contact	Causes eye damage.	
Acute effects	Not classified.	
Sensitization	Not classified.	
Sensitization		
OCTANOIC ACID		2.5 % In vivo, Literature value. Read-across 143-07-7. Result: Not sensitizing Species: Guinea pig Test Duration: 24 hours
Carcinogenicity	Lack of data.	
Mutagenicity	Not classified.	
Germ cell mutagenicity: Chromosome abberation		
OCTANOIC ACID		In vitro, OECD 473. Read-across 112-85-6. Result: Negative Organ: CHL
Reproductive effects	Not classified.	
Fertility effects - Males and females		
OCTANOIC ACID		1000 mg/kg bw/day NOAEL, OECD 422. Read-across 112-85-6. Result: No effect Species: Rat
Teratogenicity		
Developmental effects		
OCTANOIC ACID		1000 mg/kg bw/day NOAEL, OECD 422. Read-across 112-85-6. Result: No effect Species: Rat
Skin corrosion/irritation	Causes severe skin burns.	

Irritation Corrosion - Skin

OCTANOIC ACID

0.5 ml In vivo, OECD 404.
Result: Corrosive
Species: Rabbit
Test Duration: 4 hours
Observation Period: 72 hours

Serious eye damage/eye irritation

Causes eye damage.

Irritation Corrosion - Eye

OCTANOIC ACID

In vivo, Reg for the Enforcemnt of Fed. Haz. Subs. Act (Rvsd, Fed Reg. Sept 17, 1964).
Result: Irritant
Species: Rabbit
Observation Period: 72 hours

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

OCTANOIC ACID

1000 mg/kg bw/day Subchronic, NOAEL, Oral, OECD 422.
Read-across 112-85-6.
Result: No effect
Species: Rat

Other information

Not available.

12. Ecological information

Ecotoxicological data

Components		Species	Test Results
OCTANOIC ACID (124-07-2)			
Aquatic			
Acute			
Algae	EC50	Green algae (Pseudokirchneriella subcapitata)	31 mg/l, 72 hours, OECD 201.
Crustacea	EC50	Water flea (Daphnia magna)	> 20 mg/l, 48 hours, OECD 202. Read-across 334-48-5.
Fish	LC50	Bluegill (Lepomis macrochirus)	22 mg/l, 96 hours, US EPA 2975.
Chronic			
Crustacea	NOEC	Water flea (Daphnia magna)	0.2 mg/l, 21 days, OECD 211. Read-across 334-48-5.
Fish	NOEC	Zebra danio (Danio rerio)	6.4 mg/l, 28 days, OECD 305E. Read-across 629-25-4.
Terrestrial			
Acute			
Other	EC10	Soil bacterium (Pseudomonas putida)	912 mg/l, 18 hours, ISO 10712.

Ecotoxicity

Not classified as an environmental hazard.

Persistence and degradability

Readily biodegradable.

Photolysis

Half-life (Photolysis-atmospheric)

OCTANOIC ACID

15.372 hours, EPI Suite.

Biodegradability**Percent degradation (Aerobic biodegradation)**

OCTANOIC ACID

105 %, OECD 301 D.

Result: Readily biodegradable

Species: Activated sludge of a predominantly domestic sewage

Test Duration: 30 days

Bioaccumulative potential**Bioconcentration factor**

OCTANOIC ACID

234 - 249 L/kg, OECD 305E. Read-across. 629-25-4.

Species: Zebra danio (Danio rerio)

Mobility in soil

Not classified.

Adsorption**Soil/sediment sorption - log Koc**

OCTANOIC ACID

1.84, KOCWIN v2.0.

Other adverse effects

Not available.

13. Disposal considerations**Disposal methods**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Do not dispose of via sinks, drains or into the immediate environment.

Contaminated packaging

Observe local regulations.

14. Transport information**DOT****Basic shipping requirements:****UN number** UN3265**Proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Octanoic acid)**Hazard class** 8**Packing group** III**Additional information:****Special provisions** IB3, T7, TP1, TP28**IATA****UN number** UN3265**UN proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Octanoic acid)**Transport hazard class(es)** 8**Packing group** III**IMDG****UN number** UN3265**UN proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Octanoic Acid)**Transport hazard class(es)** 8**Packing group** III**EmS No.** F-A, S-B**DOT**



15. Regulatory information

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

Food and Drug Administration (FDA)

Total food additive
 Direct food additive
 GRAS food additive

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

US - New Jersey RTK - Substances: Listed substance

Contains no New Jersey Right To Know Substances

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Contains no Pennsylvania Right To Know hazardous substances

16. Other information

HMIS® ratings

Health: 3
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 3
Flammability: 1
Instability: 0

Disclaimer

The submission of the SDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied are for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific product designated herein, and does not relate to use in combination with any other material of any other process. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the controlled product.

This data sheet contains changes from the previous version in section(s):

Physical & Chemical Properties: Multiple Properties
Transport Information: Material Transportation Information