

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier

<b>Trade name of the substance</b>	C-1098 (EU)
<b>Identification number</b>	334-48-5
<b>Registration number</b>	-
<b>Registration Exemptions</b>	Meets criteria for exemption under Annex V.
<b>Synonyms</b>	Capric acid
<b>Product code</b>	98602349
<b>Date of first issue</b>	12-03-2009
<b>Version number</b>	04
<b>Revision date</b>	12-10-2010
<b>Supersedes date</b>	11-24-2010

#### Relevant identified uses of the substance or mixture and uses advised against

<b>Identified uses</b>	Production of cutting oils, specialty soaps, and chain terminators.
<b>Uses advised against</b>	None known.

#### Details of the supplier of the safety data sheet

<b>Supplier Name</b>	Procter & Gamble International Operations SA P&G Chemicals - Europe 47, Route de Saint-Georges 1213 Petit-Lancy1, Switzerland Telephone Number: +(41) 22 58 004 6485 PGChemMSDS.IM@pg.com CHEMTREC: +1-703-527-3887 Quality or Service Issues: 1-800-477-8899 or +1-513-626-6882 Emergency Telephone Number: +(41) 22 58 004 8213 (day phone)
----------------------	---

**SDS number** LC137

**Reference number** Not available.

### Section 2: Hazards identification

#### Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** Xi;R36/38

The full text for all R-phrases is displayed in section 16.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

Skin corrosion/irritation	Category 2	Causes skin irritation.
Serious eye damage/eye irritation	Category 2	Causes serious eye irritation.

#### Hazard summary

<b>Physical hazards</b>	Not classified for physical hazards.
<b>Health hazards</b>	Irritating to eyes and skin.
<b>Environmental hazards</b>	Not classified for hazards to the environment.
<b>Specific hazards</b>	Not available.

**Main symptoms**

Eyes. May cause temporary eye irritation. Causes serious eye irritation. Skin. Causes skin irritation. Inhalation. Do not breathe dust/fume/gas/mist/vapors/spray. Vapors irritate the respiratory system, and may cause coughing and difficulties in breathing. Ingestion.

May cause irritation of the gastrointestinal tract.

**Label elements****Label according to Regulation (EC) No. 1272/2008 as amended**

**Contains:** DECANOIC ACID

**Identification number** 334-48-5



**Signal word** Warning

**Hazard statements** Causes skin irritation. Causes serious eye irritation.

**Precautionary statements**

**Prevention** Wear protective gloves. Wear eye/face protection. Wash thoroughly after handling.

**Response** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage** Store in accordance with local/regional/national/international regulation.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** Not available.

**Other hazards** Not assigned.

**Emergency overview** Causes skin irritation. Causes serious eye irritation. CAUTION: EYE AND SKIN IRRITANT.

Avoid vapors from heated materials to prevent exposure to potentially toxic/irritating fumes.

**Section 3: Composition/information on ingredients****Substance****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
DECANOIC ACID	98-100	334-48-5 206-376-4	-	-	
<b>Classification:</b>	<b>DSD:</b> Xi;R36/38				
	<b>CLP:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319				

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

**Section 4: First aid measures****General information**

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

**Description of first aid measures**

**Inhalation** Move to fresh air. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Skin contact** Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention. If skin irritation occurs: Get medical advice/attention. Wash clothing separately before reuse.

**Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Flush thoroughly with water for at least 15 minutes. Get medical assistance.

**Ingestion**

Call a POISON CENTER or doctor/physician if you feel unwell. Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth. Drink plenty of water.

DO NOT induce vomiting. Get medical attention immediately.

**Most important symptoms and effects, both acute and delayed**

Not available.

**Indication of any immediate medical attention and special treatment needed**

Not available.

**Section 5: Firefighting measures****General fire hazards**

Not available.

**Extinguishing media****Suitable extinguishing media**

Water fog. Small fires: Carbon dioxide (CO<sub>2</sub>). Dry chemicals.

Large Fires: Foam.

**Unsuitable extinguishing media**

Water. Do not use water as an extinguisher. Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture**

Will decompose at temperatures exceeding 200°C. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

**Advice for firefighters****Special protective equipment for firefighters**

Wear self-contained breathing apparatus and protective clothing.

**Special firefighting procedures**

Not available.

**Section 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist. Wear protective gloves. Wear eye/face protection.

**For emergency responders**

Not available.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**Methods and material for containment and cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS. Put material in suitable, covered, labeled containers. Flush area with water to remove trace residue.

**Reference to other sections**

Not available.

**Section 7: Handling and storage****Precautions for safe handling**

Wash thoroughly after handling. Avoid contact with skin. Avoid contact with eyes. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin, and clothing. Since emptied containers retain product residue, follow label warnings even after container is emptied. Avoid heat, sparks, open flames and other ignition sources.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Keep out of the reach of children. Store in a closed container away from incompatible materials.

Do not store near acids. Suitable containers: mild steel, stainless steel.

**Specific end use(s)**

Not available.

## Section 8: Exposure controls/personal protection

### Control parameters

<b>Occupational exposure limits</b>	No exposure limits noted for the ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Recommended monitoring procedures</b>	Not available.
<b>DNEL</b>	Not available.
<b>PNEC</b>	Not available.

### Exposure controls

<b>Appropriate engineering controls</b>	Use local exhaust ventilation. Mechanical ventilation may be required.
---	---

### Individual protection measures, such as personal protective equipment

<b>General information</b>	Eye wash fountain is recommended. Observe good industrial hygiene practices. Avoid breathing dust or vapor from heated material.  Boots. Apron. Eye wash fountain and emergency showers are recommended. Wear suitable protective clothing.
<b>Eye/face protection</b>	Wear eye/face protection. Goggles/face shield are recommended.
<b>Skin protection</b>	
- <b>Hand protection</b>	Wear protective gloves.
- <b>Other</b>	Wear suitable protective clothing. Rubber or plastic gloves. Wear full protective clothing for prolonged exposure and/or high concentrations.
<b>Respiratory protection</b>	If ventilation is not sufficient to effectively prevent buildup of aerosols or mists, appropriate NIOSH/MSHA respiratory protection must be provided. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
<b>Thermal hazards</b>	Not available.
<b>Hygiene measures</b>	Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental exposure controls</b>	Not available.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Water. White. Yellow. Water. White. Yellow.
<b>Odor</b>	Musty, Rancid.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	$\geq 450$ °F ( $\geq 232,2$ °C) @ 760 mm Hg (101,3kPa)
<b>Flash point</b>	305 °F (151,7 °C) Pensky-Martens Closed Cup
<b>Auto-ignition temperature</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Oxidizing properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive limit</b>	Not applicable.
<b>Vapor pressure</b>	$\leq 1$ mm Hg @ 72 F (22,2 C)
<b>Vapor density</b>	Not applicable.

<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	0,9 @22/22 C
<b>Solubility</b>	Negligible @ 72 F
<b>Partition coefficient (n-octanol/water)</b>	4,1
<b>Decomposition temperature</b>	Not available.
<b>Bulk density</b>	Not applicable.
<b>Pour point</b>	Not applicable.
<b>Viscosity</b>	2,5 mPa·s approx.
<b>VOC (Weight %)</b>	Not available.
<b>Percent volatile</b>	Not available.
<b>Other information</b>	No relevant additional information available.

## Section 10: Stability and reactivity

<b>Reactivity</b>	Strong oxidizing agents.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None known. Avoid temperatures exceeding the flash point.
<b>Incompatible materials</b>	Not available.
<b>Hazardous decomposition products</b>	Irritants. Will decompose at temperatures exceeding 200°C. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
<b>Materials to avoid</b>	Strong oxidizing agents.

## Section 11: Toxicological information

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Not available.
<b>Inhalation</b>	Not available.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Symptoms</b>	Not available.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Not available.

<b>Product</b>	<b>Test Results</b>
DECANOIC ACID (334-48-5)	Acute Dermal LD50 Rabbit: > 5000 mg/kg Acute Dermal LD50 Rabbit: >= 5 g/kg Acute Oral LD50 Rat: >= 10 g/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.

## Section 12: Ecological information

### Toxicity

#### Product

DECANOIC ACID (334-48-5)

#### Test Results

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*): 31 mg/l in seawater

LC50 Red killifish (*Oryzias latipes*): 20 mg/l in freshwater

NOEC Bluegill (*Lepomis macrochirus*): 10 mg/l

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** Not available.

**Mobility** Not available.

**Environmental fate - Partition coefficient** Not available.

**Mobility in soil** Not available.

**Results of PBT and vPvB assessment** Not available.

**Other adverse effects** Not available.

**Persistence and degradability** No data is available on the degradability of this product.

**Persistence / degradability** No data is available on the degradability of this product.

## Section 13: Disposal considerations

### Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations.

**Contaminated packaging** Regulations vary. Consult local authorities before disposal. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**EU waste code** Not available.

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Do not discharge into drains, water courses or onto the ground.

## Section 14: Transport information

### ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

### ADN

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

## Section 15: Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulations**

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I**

Not listed.

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V**

Not listed.

**Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER)**

Not listed.

**Regulation (EC) No. 1907/2006, Article 59(1). Candidate List**

Not listed.

**Other regulations** This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.**National regulations** Not available.**Chemical safety assessment** No Chemical Safety Assessment has been carried out.**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
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
Switzerland	Switzerland FOPH	No
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)

**Section 16: Other information****List of abbreviations** Not available.

**References**

Stillman, M.A. et al, Relative Irritancy of Free Fatty Acids of Different Chain Length. Contact Dermatitis, 1, 65 (1975).

Swisher, R.D., Surfactant Biodegradation, Marcel Dekker, Inc. New York, 1970.

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

"Safety Studies on a Series of Fatty Acids", by G.B. Briggs, R.L. Doyle and J.A. Young; Amer. Ind. Hyg. Assoc. J.; 251-253 (April 1976).

BIBRA toxicity profile (1988) n-Octanoic acid.

Acute Toxicity and Irritation Studies on a Series of Fatty Acids. J. Am. Oil Chem. Soc., 56(1979), p.760A.

**Information on evaluation method leading to the classification of mixture** Not available.**Full text of any statements or R-phrases and H-phrases under Sections 2 to 15** R36/38 Irritating to eyes and skin.

H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.

**Revision information**

Not available.

**Training information**

Not available.

**Disclaimer**

The submission of the MSDS 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. The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date**

12-10-2010

**Revision date**

12-10-2010

**Print date**

12-10-2010