

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

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

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

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

Details of the supplier of the safety data sheet

Supplier Name	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

Physical hazards	Not classified for physical hazards.
Health hazards	Irritating to eyes and skin.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	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. Vapours 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 vapours 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	-	-	
Classification:	DSD: Xi;R36/38				
	CLP: 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 (CO₂). 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 vapours.

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. 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 practices. 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

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

Exposure controls

Appropriate engineering controls	Use local exhaust ventilation. Mechanical ventilation may be required.
---	---

Individual protection measures, such as personal protective equipment

General information	Eye wash fountain is recommended. Observe good industrial hygiene practices. Avoid breathing dust or vapour from heated material. Boots. Apron. Eye wash fountain and emergency showers are recommended. Wear suitable protective clothing.
Eye/face protection	Wear eye/face protection. Goggles/face shield are recommended.
Skin protection	
- Hand protection	Wear protective gloves.
- Other	Wear suitable protective clothing. Rubber or plastic gloves. Wear full protective clothing for prolonged exposure and/or high concentrations.
Respiratory protection	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.
Thermal hazards	Not available.
Hygiene measures	Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practices.
Environmental exposure controls	Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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

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

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product	Test results
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.

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory sensitisation	Not available.
Skin sensitisation	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not classified.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.

Mixture versus substance information

Not available.

Other information

Additional information is available by request.

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 and 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

10-December-2010

Revision date

10-December-2010

Print date

10-December-2010