

## 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-699 Kosher (EU)
<b>Identification number</b>	142-62-1
<b>Registration number</b>	-
<b>Registration Exemptions</b>	No registration number is given yet for this pre-registered phase-in substance since the transition period for its registration according to Article 23 of REACH has not yet expired.
<b>Product registration number</b>	Not available.
<b>Synonyms</b>	Caproic acid
<b>SDS number</b>	LC142
<b>Product Code</b>	98938798
<b>Date of first issue</b>	11-24-2010
<b>Version number</b>	02
<b>Revision date</b>	10-20-2011
<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)
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### 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** C;R34, Xn;R21

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 1B	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	Causes serious eye damage.

#### Hazard summary

**Physical hazards** Not classified for physical hazards.

<b>Health hazards</b>	Harmful in contact with skin. Causes burns. Occupational exposure to the substance or mixture may cause adverse health effects.
<b>Environmental hazards</b>	Not classified for hazards to the environment.
<b>Specific hazards</b>	Not available.
<b>Main symptoms</b>	May cause irritation of respiratory tract.  Eyes. Splashes may cause serious eye damage. Vapors may also produce eye irritation.  Skin. Contact with concentrated chemical may cause severe skin damage. Vapors may also produce skin irritation.  Inhalation. Vapors may irritate throat and respiratory system and cause coughing.  Ingestion. May cause burns in mucous membranes, throat, esophagus and stomach.
<b>Label elements</b>	
<b>Label according to Regulation (EC) No. 1272/2008 as amended</b>	
<b>Contains:</b>	HEXANOIC ACID
<b>Identification number</b>	142-62-1
	
<b>Signal word</b>	Danger
<b>Hazard statements</b>	Causes severe skin burns and eye damage. Causes serious eye damage.
<b>Precautionary statements</b>	
<b>Prevention</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep only in the original container. Do not subject to grinding/shock/friction. Ground/bond container and receiving equipment. Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.
<b>Response</b>	Explosion risk in case of fire. In case of fire: Evacuate area. DO NOT fight fire when fire reaches explosives. Absorb spillage to prevent material damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Take off immediately all contaminated clothing. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. 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 INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
<b>Storage</b>	Store locked up. Store in corrosive resistant container with a resistant inliner. Store in accordance with local/regional/national/international regulation.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Supplemental label information</b>	Not applicable.
<b>Other hazards</b>	Not assigned.
<b>Emergency overview</b>	Causes severe skin burns and eye damage. DANGER -- CORROSIVE Contact with concentrated chemical may cause severe skin damage.  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
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HEXANOIC ACID	99-100	142-62-1 205-550-7	-	-	#
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**Classification:**     **DSD:** C;R34, Xn;R21  
**CLP:** Skin Corr. 1B;H314, Eye Dam. 1;H318

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**           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**                   Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.  
If breathing stops, provide artificial respiration.  
If breathing is difficult, give oxygen.

**Skin contact**                 Take off immediately all contaminated clothing. Call a physician or poison control center immediately. For minor skin contact, avoid spreading material on unaffected skin. Destroy contaminated clothing and shoes. Get medical attention if symptoms occur. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash clothing separately before reuse.

**Eye contact**                 Immediately flush eyes with plenty of water for at least 15 minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

**Ingestion**                    Call a physician or poison control center immediately. Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth. Do not induce vomiting.  
DO NOT induce vomiting. Get medical attention immediately.  
Immediately give a couple of glasses of water or milk, provided the victim is fully conscious.

**Most important symptoms and effects, both acute and delayed**     Not available.

**Indication of any immediate medical attention and special treatment needed**     In case of shortness of breath, give oxygen. Keep victim warm.

**Section 5: Firefighting measures**

**General fire hazards**           Not available.

**Extinguishing media**

**Suitable extinguishing media**     Water fog. Small fires: Carbon dioxide (CO2). Dry chemical.

Large Fires: Foam.

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

**Special hazards arising from the substance or mixture**     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 suitable protective clothing, gloves and 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. Soak up with inert absorbent material. Put material in suitable, covered, labeled containers. Flush area with water to remove trace residue. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

or

Neutralize with alkaline material (Lime, crushed limestone, sodium bicarbonate or soda ash). Flush area with water. Flush area with plenty of water. Small quantities may be flushed to drains with plenty of water. Flush area with flooding quantities of water.

**Reference to other sections** Not available.

## Section 7: Handling and storage

**Precautions for safe handling** Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Avoid prolonged exposure. 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** Store locked up. 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.

Store in closed original container in a dry place.

Avoid elevated temperatures for prolonged periods of time.

**Specific end use(s)** Not available.

## Section 8: Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

**Bulgaria. OELs. Regulation No 13 of Ministry of Labor & Social Policy, with Ministry of Health, on protection of workers related to exposure to chemical agents at work**

Material	Type	Value
HEXANOIC ACID (142-62-1)	TWA	5 mg/m <sup>3</sup>

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Material	Type	Value
HEXANOIC ACID (142-62-1)	TWA	5 mg/m <sup>3</sup>

Lithuania. OELs. Occupational Exposure Limit Values for Hazardous Chemical Substance Concentration, General Requirements (No. 645/169)

Material	Type	Value
HEXANOIC ACID (142-62-1)	TWA	5 mg/m <sup>3</sup>
<b>Recommended monitoring procedures</b>	Not available.	
<b>DNEL</b>	Not available.	
<b>PNEC</b>	Not available.	
<b>Exposure controls</b>		
<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Local exhaust is recommended. Mechanical ventilation may be required.	
<b>Individual protection measures, such as personal protective equipment</b>		
<b>General information</b>	Wear chemical protective equipment that is specifically recommended by the manufacturer. 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>		
- Hand protection	Wear protective gloves.	
- Other	Wear appropriate chemical resistant clothing. Wear protective gloves. It may provide little or no thermal protection. Rubber or plastic gloves. Wear full protective clothing for prolonged exposure and/or high concentrations.	
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist.	
<b>Thermal hazards</b>	Not available.	
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Handle in accordance with good industrial hygiene and safety practice.	
<b>Environmental exposure controls</b>	Additional information is available by request.	

## 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.
<b>Odor</b>	Strong., Musty, Rancid.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Boiling point, initial boiling point, and boiling range</b>	402 °F (205,6 °C) @ 760 mm Hg (101,3kPa)
<b>Flash point</b>	230 °F (110 °C) Pensky-Martens Closed Cup
<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>	2,1 - 6,6
<b>Vapor pressure</b>	<= 1 mm Hg @ 72F (22 C)
<b>Vapor density</b>	4
<b>Evaporation rate</b>	<= 0,01
<b>Relative density</b>	0,93 @ 20/20 C
<b>Solubility (water)</b>	1 % @ 72 F (22 C)
<b>Viscosity</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 alkalis.
<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>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
<b>Materials to avoid</b>	Strong alkalis.

## Section 11: Toxicological information

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Causes digestive tract burns.
<b>Inhalation</b>	May cause irritation to the respiratory system.
<b>Skin contact</b>	Causes severe skin burns.
<b>Eye contact</b>	Causes severe eye burns.
<b>Symptoms</b>	Not available.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Causes severe skin burns and eye damage.

<b>Product</b>	<b>Test Results</b>
HEXANOIC ACID (142-62-1)	Acute Dermal LD50 Rabbit: 630 mg/kg Acute Oral LD50 Rat: 5970 mg/kg Acute Oral LD50 Rat: 3 g/kg Acute Other LD50 Mouse: 1725 mg/kg

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

<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage.
<b>Serious eye damage/eye irritation</b>	Causes severe eye burns.
<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.

Aspiration hazard	Not available.
Mixture versus substance information	Not available.
Other information	Not available.

## Section 12: Ecological information

### Toxicity

Product	Test Results
HEXANOIC ACID (142-62-1)	LC50 Fathead minnow (Pimephales promelas): 88 mg/l 96 hours

\* 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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of in accordance with local regulations.
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

UN number	UN2829
UN proper shipping name	CAPROIC ACID
Transport hazard class(es)	8
Subsidiary class(es)	-
Packing group	III
Environmental hazards	No
Tunnel restriction code	E
Labels required	8
Special precautions for user	Not available.

### RID

UN number	UN2829
UN proper shipping name	CAPROIC ACID
Transport hazard class(es)	8
Subsidiary class(es)	-
Packing group	III
Environmental hazards	No
Labels required	8
Special precautions for user	Not available.

**ADN**  
UN number UN2829  
UN proper shipping name Caproic Acid  
Transport hazard class(es) 8  
Subsidiary class(es) -  
Packing group III  
Environmental hazards No  
Labels required 8  
Special precautions for user Not available.

**IATA**

UN number UN2829  
UN proper shipping name Caproic acid  
Transport hazard class(es) 8  
Subsidiary class(es) -  
Packing group III  
Environmental hazards No  
ERG Code 8L  
Special precautions for user Not available.

**IMDG**

UN number UN2829  
UN proper shipping name CAPROIC ACID  
Transport hazard class(es) 8  
Subsidiary class(es) -  
Packing group III  
Marine pollutant No  
EmS No. F-A, S-B  
Special precautions for user Not available.



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.

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. The product is classified and labelled in accordance with EC directives or respective national laws. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

**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**

Sax's Dangerous Properties of Industrial Materials, 9th Ed. Richard J. Lewis.

V. R. Mattson, et al, "Acute Toxicity of Selected Organic Compounds to Fathead Minnows," EPA-600/3-76-097, Oct. 1976.

K. Verschueren. Handbook of Environmental Data on Organic Chemicals, 3rd Ed. 1998.

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

BIBRA toxicity profile (1988) n-Octanoic acid.

**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**

R21 Harmful in contact with skin.  
R34 Causes burns.

H314 - Causes severe skin burns and eye damage.  
H318 - Causes serious eye damage.

**Revision information** Section 2: Hazards identification: GHS Hazard Statements

**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.

<b>Issue date</b>	10-20-2011
<b>Revision date</b>	10-20-2011
<b>Print date</b>	10-20-2011