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	CO-899K (EU) Nederlands
Identification number	111-87-5
Registration number	01-2119486978-10-0007
Synonyms	Caprylic alcohol
Product code	98598232
Date of first issue	09-25-2009
Version number	04
Revision date	11-29-2010
Supersedes date	03-24-2010

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

Identified uses	Intermediate. Laboratory chemicals. Lubricant. Lubricant additives. Solvents.
Uses advised against	None known.

Details of the supplier of the safety data sheet

Legal Entity	Procter & Gamble Nederland B.V. Watermanweg 100 3067 GG Rotterdam Netherlands Telephone Number: +322-456-4150 reachpgc.im@pg.com
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	ALCH452
Reference number	Not available.

Section 2: Hazards identification

Classification of the substance or mixture

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

Classification	Xi;R36

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

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

Health hazards

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. Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Combustible liquid and vapor. May be ignited by friction, heat, spark or flames. Containers may explode when heated. May travel considerable distance to source of ignition and flash back. Irritating to eyes. High vapor concentrations are irritating to the eyes, nose, throat, and lungs.
Main symptoms	Causes severe eye irritation.

Label elements

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

Contains:	1-OCTANOL
Identification number	111-87-5
Authorization number	01-2119486978-10-0007

Signal word	Warning
Hazard statements	Causes serious eye irritation.

Precautionary statements

Prevention	Wear suitable protective clothing and eye/face protection.
Response	Immediately flush eyes with plenty of water for at least 15 minutes.
Storage	No special storage precautions noted.
Disposal	Not available.

Supplemental label information	Not available.
Other hazards	Not assigned.
Emergency overview	Causes serious eye irritation.

Section 3: Composition/information on ingredients

Substance

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
1-OCTANOL	99-100	111-87-5 203-917-6	01-2119486978-10-0007	-	#
Classification: DSD: Xi;R36					
CLP: Eye Irrit. 2;H319					

Section 4: First aid measures

Description of first aid measures

Inhalation	Move to fresh air. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Skin contact	Wash off with soap and water. Remove contaminated clothing. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.
Ingestion	Get medical attention. Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.
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	May be ignited by heat, sparks or flames. Containers may explode when heated. Vapors may travel to a source of ignition and flash back.
Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry powder. Carbon dioxide (CO2). Alcohol resistant foam.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance or mixture	May be ignited by heat, sparks or flames. Containers may explode when heated. Vapors may travel to a source of ignition and flash back.
Advice for firefighters	
Special protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
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. Keep upwind. Keep out of low areas.
For emergency responders	Firefighters should wear full protective clothing including self contained breathing apparatus.
Environmental precautions	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
Methods and material for containment and cleaning up	Soak up with inert absorbent material.
Reference to other sections	Not available.

Section 7: Handling and storage

Precautions for safe handling	Wear appropriate personal protective equipment.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Keep away from heat, sparks, and flame. Keep container tightly closed.
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
1-OCTANOL (111-87-5)	TWA	10 mg/m3

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Material	Type	Value
1-OCTANOL (111-87-5)	AGW	20 ppm 106 mg/m3

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

Material	Type	Value
1-OCTANOL (111-87-5)	TWA	10 mg/m3

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

Material	Type	Value
1-OCTANOL (111-87-5)	TWA	10 mg/m3

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Material	Type	Value
1-OCTANOL (111-87-5)	STEL	250 mg/m3 47 ppm
	TWA	150 mg/m3

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Material	Type	Value
		28 ppm

Recommended monitoring procedures	Not available.
DNEL	Not available.
PNEC	Not available.
Exposure controls	
Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas.
Individual protection measures, such as personal protective equipment	
General information	Use personal protective equipment as required. Eye wash fountain is recommended. Keep working clothes separately.
Eye/face protection	Wear approved, tight fitting safety glasses where splashing is probable. Avoid contact with eyes.
Skin protection	
- Hand protection	Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.
- Other	Not available.
Respiratory protection	Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Thermal hazards	Not available.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Not available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Colorless.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Fishy, Alcoholic.
Odor threshold	Not available.
pH	Not applicable.
Melting point/freezing point	6,8 °F (-13,5 °C)
Boiling point, initial boiling point, and boiling range	381,2 °F (194 °C)
Flash point	188,6 °F (86,5 °C) Pensky-Martens Closed Cup
Auto-ignition temperature	561,2 °F (294 °C)
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Oxidizing properties	Not applicable.
Explosive properties	Not applicable.
Explosive limit	Not applicable.
Vapor pressure	0,010586 kPa at 25°C 0,76 mbar at 38°C (76,4 Pa)
Vapor density	4.5
Evaporation rate	Not applicable.
Relative density	0,8283 g/ml at 15,56°C

Solubility	107 mg/l
Partition coefficient (n-octanol/water)	2,7
Decomposition temperature	Not available.
Bulk density	Not applicable.
Pour point	Not applicable.
Viscosity	5,584 mm2/s at 40°C (static)
VOC (Weight %)	Not available.
Percent volatile	Not available.
Other data	
Dissociation constant	15,8 pKa (QSAR) estimated
Surface tension	35,5 mN/m @ 90% saturated aqueous solution
Other information	No relevant additional information available.

Section 10: Stability and reactivity

Reactivity	Strong oxidizing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	No special precautions.
Incompatible materials	Not available.
Hazardous decomposition products	Carbon monoxide. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
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	Not available.
Eye contact	Air.
Symptoms	Not available.
Information on toxicological effects	
Acute toxicity	May cause severe irritation to eyes.

Product	Test Results
1-OCTANOL (111-87-5)	Acute Dermal LD50 Rabbit: 2000 - 4000 mg/kg Scientific Assoc 1976; Rel 2 Acute Dermal LD50 Rat: > 5000 mg/kg Henkel 1981; Rel 2

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

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

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

Section 12: Ecological information

Toxicity

Product	Test Results
1-OCTANOL (111-87-5)	EC30 Algae (Pseudokirchenerialla subcapitata): 14 mg/l 48.00 Hours EC50 Water flea (Daphnia magna): 20 mg/l 96.00 Hours LC50 Fathead minnow (Pimephales promelas): 13,3 mg/l 96.00 Hours

Persistence and degradability	Expected to be readily biodegradable.
Bioaccumulative potential	The product is not bioaccumulating.
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	Expected to be readily biodegradable.
Persistence / degradability	Expected to be readily biodegradable.

Section 13: Disposal considerations

Waste treatment methods

Residual waste	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose in accordance with all applicable regulations.
EU waste code	Waste codes should be assigned by the user based on the application for which the product was used.

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 Registery (EPER)

Not listed.

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

Not listed.

Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws 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.

Section 16: Other information

List of abbreviations	Not available.
References	Not available.
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 Irritating to eyes. H319 - Causes serious eye irritation.
Revision information	This document has undergone significant changes and should be reviewed in its entirety
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.
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