

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-1695 (EU) Nederlands
Identification Number	36653-82-4
Registration number	-
Synonyms	CETYL ALCOHOL
Product code	98660286
Date of first issue	14-April-2010
Version number	05
Revision date	18-January-2011
Supersedes date	29-November-2010
Relevant identified uses of the substance or mixture and uses advised against	
Identified uses	Intermediate. Laboratory chemicals. Lubricant. Lubricant additives. Processing aid. 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	ALCH503

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. Not classified.

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

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

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

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environment.

Specific hazards High dust levels may create potential for explosion.
 Main symptoms May cause minor irritation on eye contact.
 Mild skin irritation.
 Dust may be slightly irritating to eyes and respiratory tract.
 Not hazardous by inhalation.
 May cause irritation of the gastrointestinal tract.

Label elements

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

Contains: 1-HEXADECANOL
 Identification Number 36653-82-4
 Hazard statements The substance does not meet the criteria for classification.

Precautionary statements

Prevention Wear eye/face protection. Wash thoroughly after handling.
 Response Not available.
 Storage Not available.
 Disposal Not available.

Supplemental label information Not applicable.

Other hazards Not assigned.

Emergency overview High dust levels may create potential for explosion.

Section 3: Composition/information on ingredients

Substance

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
1-HEXADECANOL	95-100	36653-82-4 253-149-0	-	-	#
Classification:	DSD: -				
	CLP: -				

Section 4: First aid measures

General information If you feel unwell, seek medical advice (show the label where possible).
 Take off all contaminated clothing immediately.

Description of first aid measures

Inhalation Move to fresh air. Remove from contaminated area. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical attention immediately.
 Skin contact Wash off with soap and plenty of water.
 Eye contact Flush thoroughly with water for at least 15 minutes. Get medical assistance.
 Ingestion Call a physician immediately. Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Never give anything by mouth to a victim who is unconscious or is having convulsions.

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 spray. Dry powder. Foam. Carbon dioxide (CO2).
 Unsuitable extinguishing media Not available.

Special hazards arising from the substance or mixture Not available.

Advice for firefighters

Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special firefighting procedures	Not available.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Wear appropriate personal protective equipment.
For emergency responders	Not available.

Environmental precautions Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

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

Reference to other sections Not available.

Section 7: Handling and storage

Precautions for safe handling Wear personal protective equipment.
Handle in accordance with good industrial hygiene and safety practices.

Conditions for safe storage, including any incompatibilities No special storage precautions noted.

Specific end use(s) Not available.

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

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

Material	Type	Value
1-HEXADECANOL (36653-82-4)	AGW	20,000 ppm 200,000 mg/m ³

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 No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

General information Avoid contact with eyes. Wear suitable gloves and eye/face protection.

Eye/face protection Tightly fitting safety goggles.

Skin protection

- Hand protection

The use of nitrile-latex gloves is recommended., or Nitrile rubber

- Other

Wear full protective clothing for prolonged exposure and/or high concentrations.

Respiratory protection

No protection is ordinarily required under normal conditions of use and with adequate ventilation. When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection must be provided.

Thermal hazards

Not available.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices. Keep away from food, drink and animal feeding stuffs.

Environmental exposure controls

Not available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Solid. Flakes. Powder.
Physical state	Solid.
Form	Solid.
Colour	Waxy White.
Odour	Mild. Soapy.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	$\geq 47\text{ °C}$ ($\geq 116,6\text{ °F}$)
Boiling point, initial boiling point, and boiling range	319 °C (606,2 °F)
Flash point	149 °C (300,2 °F) Pensky-Martens Closed Cup
Auto-ignition temperature	272 °C (521,6 °F)
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	0,003 mbar
Evaporation rate	Not applicable.
Density	0,8886 g/ml
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	6,7 - 7,3
Decomposition temperature	Not available.
Viscosity	3,394 mm ² /s
Other data	
Dissociation constant	15,8
Surface tension	65 mN/m
Other information	No relevant additional information available.

Section 10: Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Not available.
Incompatible materials	Not available.
Hazardous decomposition products	No hazardous decomposition products are known.

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	Not available.

Symptoms Not available.

Information on toxicological effects

Acute toxicity Not available.

Product

Test results

1-HEXADECANOL (36653-82-4)

Acute Dermal LD50 Rabbit: > 2000 mg/kg 24.00 hours
Scientific Assoc. 1977, Rel 1

Acute Inhalation LC50 Rat: > 1,5 mg/l Scientific Assoc, 1977;
Rel 2

Acute Oral LD50 Rat: > 2000 mg/kg Hempstock, 1996; Rel 1

Acute Other Rabbit: 0,1 ml/kg 72.00 hours Eye Irritation.
Sanders, 1996, Rel 1

Skin corrosion/irritation Not available.

Serious eye damage/eye irritation Not available.

Respiratory sensitisation Not available.

Skin sensitisation Not available.

Germ cell mutagenicity Not available.

Carcinogenicity Not available.

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 Not available.

Section 12: Ecological information

Toxicity

Product

Test results

1-HEXADECANOL (36653-82-4)

EL50 Green algae (*Desmodesmus subspicatus*): > 1000 mg/l
96.00 hours Literature value

NOEC Fathead minnow (*Pimephales promelas*): Not toxic. OECD
Test Guideline 203

Persistence and degradability Not available.

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 Not available.

Section 13: Disposal considerations

Waste treatment methods

Residual waste Not available.

Contaminated packaging Not available.

EU waste code Not available.

Disposal methods/information Can be incinerated when in compliance with local regulations. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

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 This substance is not classified according to Directive 67/548/EEC.

Chemical safety assessment Not available.

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	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	None.
Revision information	Section 4: First aid measures: Skin contact Section 4: First aid measures: Inhalation Section 4: First aid measures: Ingestion Section 6: Accidental release measures: For non-emergency personnel Section 6: Accidental release measures: Environmental precautions Section 6: Accidental release measures: Methods and material for containment and cleaning up Section 8: Exposure controls/personal protection: Appropriate engineering controls Section 8: Exposure controls/personal protection: Respiratory protection Section 8: Exposure controls/personal protection: - Hand protection Section 10: Stability and reactivity: Materials to avoid Section 10: Stability and reactivity: Possibility of hazardous reactions
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.
Issue date	18-January-2011
Revision date	18-January-2011
Print date	18-January-2011