

SAFETY DATA SHEET

1. Identification

GHS product identifier	CO-1899Pt
MSDS Number	ALCH498
Version #	02
Issue date	05-20-2011
CAS #	112-92-5
Product use	Production of alkyl amines, aluminum rolling lubricants, tertiary amines, cosmetics, ethoxylates, halides/mercaptans, polymerization stabilizers, and sulfation.
Recommended Restrictions	Not available.
Synonym(s)	STEARYL ALCOHOL
Manufacturer	P&G Chemicals Asia 238-A Thompson Road #21-01/10 Novena Square Tower A Singapore 307684 (65) 6824 5728 (day phone) PGChemMSDS.IM@pg.com CHEMTREC: +1-703-527-3887 Quality or Service Issues: 1-800-477-8899 or +1-513-626-6882

2. Hazards identification

GHS classification		
Physical hazards	Explosives	Classification not possible
	Flammable gases	Not applicable
	Flammable aerosols	Not applicable
	Oxidizing gases	Not applicable
	Gases under pressure	Not applicable
	Flammable liquids	Not applicable
	Flammable solids	Classification not possible
	Self-reactive substances and mixtures	Classification not possible
	Pyrophoric liquids	Not applicable
	Pyrophoric solids	Classification not possible
	Self-heating substances and mixtures	Classification not possible
	Substances and mixtures which, in contact with water, emit flammable gases	Classification not possible
	Oxidizing liquids	Not applicable
	Oxidizing solids	Classification not possible
	Organic peroxides	Classification not possible
	Corrosive to metals	Classification not possible
Health hazards	Acute toxicity, oral	Not classified
	Acute toxicity, dermal	Not classified
	Acute toxicity, inhalation	Not applicable
	Skin corrosion/irritation	Not classified
	Serious eye damage/eye irritation	Classification not possible
	Sensitization, respiratory	Classification not possible
	Sensitization, skin	Classification not possible

	Germ cell mutagenicity	Classification not possible
	Carcinogenicity	Not classified
	Reproductive toxicity	Classification not possible
	Specific target organ toxicity, single exposure	Classification not possible
	Specific target organ toxicity, repeated exposure	Classification not possible
	Aspiration hazard	Classification not possible
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Classification not possible
	Hazardous to the aquatic environment, long-term hazard	Not classified
	Hazardous to the ozone layer	Not classified

Precautionary statement

Prevention	Not applicable.
Response	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Storage	Store in accordance with local/regional/national/international regulation.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Components	CAS #	Percent
1-OCTADECANOL	112-92-5	95-99

4. First aid measures

First aid procedures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin	Rinse skin with water/shower. Get medical attention if irritation develops or persists.
Eye	Rinse with water. Get medical attention if irritation develops or persists.
Ingestion	Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Notes to physician

Not applicable.

General advice

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. Fire-fighting measures

Suitable extinguishing media	Water.
Specific hazards arising from the chemical	Not available.
Protective equipment and precautions for firefighters	In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions	Not available.
Environmental precautions	No special environmental precautions required.
Methods for containment	Not available.
Methods for cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Following product recovery, flush area with water.

7. Handling and storage

Handling	Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.
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Storage Keep container tightly closed. Use care in handling/storage. Avoid heat, sparks, open flames and other ignition sources.

8. Exposure controls / personal protection

Recommended monitoring procedures Not available.

Engineering controls 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.

Personal protective equipment

- Eye/face protection Not normally needed.
- Skin protection No special protective equipment required.
- Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hand protection Not normally needed.

9. Physical and chemical properties

Appearance
Solid. Flakes. Powder.

Physical state Solid.

Color Waxy. White.

Form Solid.

Odor Mild. Soapy.

Odor threshold Not available.

pH Not available.

Melting point/Freezing point 132.8 - 140 °F (56 - 60 °C)

Boiling point >= 480.2 °F (>= 249 °C) 101.3232 kPa

Flash point 342 °F (172.2 °C) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability (Train fire) Not available.

Flammability limits in air, lower, % by volume Not available.

Flammability limits in air, upper, % by volume Not available.

Vapor pressure <= 1 mm Hg at 22°C

Vapor density Not available.

Relative density Not available.

Solubility (H2O) Negligible @ 72 F (22 C)

Octanol/H2O coeff Not available.

Decomposition temperature Not available.

Viscosity Not available.

Specific gravity 0.8124

10. Stability and reactivity

Chemical stability No hazards to be especially mentioned.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Not available.

Materials to avoid Strong oxidizing agents.

Hazardous decomposition products Does not decompose up to 400 F. Complete combustion forms carbon dioxide and water vapor. Partial combustion forms also carbon monoxide, soot, aldehydes and ketones.

11. Toxicological information

Toxicological data

Product	Test Results
1-OCTADECANOL (112-92-5)	Acute Dermal LD50 Rabbit: > 3 g/kg Acute Oral LD50 Rat: > 5000 mg/kg Acute Oral LD50 Rat: 20 g/kg
Acute effects	1-OCTADECANOL (112-92-5) Acute Oral Toxicity: Practically nontoxic. 1-Octadecanol has an LD50 of greater than 20 gms per kilogram of body weight for rats (i.e. at maximum possible dosage, non of the animals died). 1-HEXADECANOL (36653-82-4) Acute Oral Toxicity: Practically nontoxic. 1-Hexadecanol has an LD50 of greater than 20 gms per kilogram of body weight for rats (i.e. at maximum possible dosage, none of the animals died).
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Other information	1-OCTADECANOL (112-92-5) Eye Irritation: Non-hazardous. Produced only mild transient eye irritation with rabbits. The degree and duration of irritation elicited by the undiluted, powdered fatty alcohol was equivalent to or less than that produced by a 10% aqueous solution of real soap. Skin Irritation - Humans: Non-hazardous. (30% in isopropanol) produced little or no primary skin irritation with human subjects in a 24-hour closed patch test. The degree of irritation elicited was less than that produced by a 4% aqueous solution of real soap. 1-HEXADECANOL (36653-82-4) Eye Irritation: Non-hazardous. 1-Hexadecanol produced only mild transient eye irritation with rabbits. The degree and duration of irritation elicited by the undiluted, powdered fatty alcohol was equivalent to or less than that produced by a 10% aqueous solution of real soap. Skin Irritation - Humans: Non-hazardous. (30% in isopropanol) produced little or no primary skin irritation with human subjects in a 24-hour closed patch test. The degree of irritation elicited was less than that produced by a 4% aqueous solution of real soap.

12. Ecological information

Ecotoxicological data

Product	Test Results
1-OCTADECANOL (112-92-5)	LC50 Bluegill (Lepomis macrochirus): >= 1000 mg/l 96.00 hours

Ecotoxicity

1-OCTADECANOL (112-92-5)

Mobility:

Mass Distribution by Environmental Compartment via Fugacity Level III Model:

Air: 0.63% Water: 7.35% Soil: 28.7% Sediment 63.3%

1-HEXADECANOL (36653-82-4):

Mobility:

Mass Distribution by Environmental Compartment via Fugacity Level III Model:

Air: 0.762% Water: 8.75% Soil: 29.9% Sediment: 60.6%

1-OCTADECANOL (112-92-5)

PERSISTENCE AND DEGRADABILITY:

Bioaccumulative Potential:

Log Kow 7.19 Burkhard et al 1985

Log Kow 7.72% SRC

BCF 100,000 OECD SIDS

Microbiological Inhibition: None at 10,000 mg/l.

1-HEXADECANOL (36653-82-4)

PERSISTENCE AND DEGRADABILITY:

Bioaccumulative Potential:

LogKow 6.65 Burkhard et al., 1985

LogKow 6.73 SRC

BCF 56 Freitag et al., 1982

Microbiological Inhibition: None at 10,000 mg/l.

13. Disposal considerations

Disposal methods

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

14. Transport information

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory information

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

Country(s) or region	Inventory name	On inventory (yes/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)

16. Other information

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.

Revision date

05-20-2011

SDS sections updated

Hazards identification: Specific hazards

Hazards identification: Response