

SAFETY DATA SHEET

1. Identification

GHS product identifier	CO-1899
MSDS Number	ALCH540
Product Code	99258931
Version #	01
Issue date	05-19-2011
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 exposed or concerned: Get medical advice/attention.	
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	97.5-100

4. First aid measures

First aid procedures

Inhalation	Avoid breathing dust. Move to fresh air. Get medical attention.
Skin	Wash off with soap and water. Remove contaminated clothing. Wash clothing separately before reuse.
Eye	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.
Ingestion	If swallowed, especially in large quantities: Get medical attention.
Notes to physician	Not available.

5. Fire-fighting measures

Suitable extinguishing media	Water. Small fires: Larger fires:
Specific hazards arising from the chemical	May be combustible. Will decompose at temperatures exceeding 200°C. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective clothing.
Protective equipment and precautions for firefighters	In the event of fire, cool tanks with water spray.

6. Accidental release measures

Personal precautions	If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods for containment	Not available.
Methods for cleaning up	Ventilate the area. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS. Remove sources of ignition. Collect spillage with granulates, sawdust, rags or other absorbent. Sweep up or gather material and place in appropriate container for disposal. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Dispose of contents/container in accordance with local/regional/national/international regulations.

7. Handling and storage

Handling	Keep away from sources of ignition - No smoking. Wash 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.
Storage	Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Suitable containers: stainless steel, polyethylene lined mild steel. Store in cool, dry place.

8. Exposure controls / personal protection

Recommended monitoring procedures	Not available.
Engineering controls	Mechanical ventilation or local exhaust ventilation may be required.
Personal protective equipment	
General	Apron. Boots. Eye wash fountain and emergency showers are recommended. Wear suitable protective clothing.
Eye/face protection	Not normally needed. It is a good industrial hygiene practice to minimize eye contact.
Skin protection	For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns.
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.
Environmental exposure controls	Additional information is available by request.

9. Physical and chemical properties

Appearance	
Flakes.	
Physical state	Solid.
Color	Waxy White.
Form	Solid. Flakes.
Odor	Mild. Soapy.
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	132.8 - 140 °F (56 - 60 °C)
Boiling point	>= 480 °F (>= 248.9 °C) @ 760 mm Hg (101.3 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 @ 72 F (22°C)
Relative density	0.81 @ 65/25 C
Solubility (H2O)	Negligible @ 72 F (22 C)

Octanol/H2O coeff	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Not known.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Will decompose at temperatures exceeding 200°C. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

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
Impurities	Test Results
1-EICOSANOL (629-96-9)	Acute Dermal LD50 Rabbit: > 20 ml/kg Acute Oral LD50 Rat: > 10000 mg/kg Acute Oral LD50 Rat: > 64 ml/kg
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Other information	Not available.

12. Ecological information

Ecotoxicological data

Product	Test Results
1-OCTADECANOL (112-92-5)	LC50 Bluegill (Lepomis macrochirus): >= 1000 mg/l 96.00 hours
Impurities	Test Results
1-HEXADECANOL (36653-82-4)	EC50 Water flea (Daphnia magna): > 0.01 mg/l 48.00 hours OECD (literature value) EL50 Green algae (Scenedesmus): > 980 mg/l 96.00 hours OECD 201 (literature value) LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): > 0.4 mg/l 96.00 hours OECD 203 (literature value)

Mobility:

Mass Distribution by Environmental Compartment via Fugacity Level III Model:

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

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):

Mobility:

Mass Distribution by Environmental Compartment via Fugacity Level III Model:

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

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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Do not discharge into drains, water courses or onto the ground.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ADR

Special precautions

Not regulated for transport.

Not regulated as dangerous goods.

IATA

Special precautions

Not regulated for transport.

Not regulated as dangerous goods.

IMDG

Special precautions

Not regulated for transport.

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

Country(s) or region	Inventory name	On inventory (yes/no)*
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)

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.

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Revision date

05-19-2011