

## SAFETY DATA SHEET

### 1. Identification

<b>GHS product identifier</b>	<b>CO-1214</b>
<b>MSDS Number</b>	ALCH408
<b>Version #</b>	07
<b>Issue date</b>	02-04-2011
<b>CAS #</b>	67762-41-8
<b>Product use</b>	Production of alkyl amines, aluminum rolling lubricants, tertiary amines, cosmetics, ethoxylates, halides/mercaptans, polymerization stabilizers, and sulfation.
<b>Recommended Restrictions</b>	Not available.
<b>Synonym(s)</b>	Lauryl/Myristyl Alcohol
<b>Manufacturer</b>	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 classified
Flammable solids	Not applicable
Self-reactive substances and mixtures	Classification not possible
Pyrophoric liquids	Classification not possible
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases	Classification not possible
Oxidizing liquids	Classification not possible
Oxidizing solids	Not applicable
Organic peroxides	Classification not possible
Corrosive to metals	Classification not possible

##### Health hazards

Acute toxicity, oral	Not classified
Acute toxicity, dermal	Classification not possible
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	Classification not possible
Reproductive toxicity	Classification not possible

<b>Environmental hazards</b>	Specific target organ toxicity, single exposure	Classification not possible
	Specific target organ toxicity, repeated exposure	Classification not possible
	Aspiration hazard	Classification not possible
	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Not classified
	Hazardous to the ozone layer	Not classified

### GHS label elements

#### Signal word

Warning



#### Hazard statement

Very toxic to aquatic life.

#### Precautionary statement

##### Prevention

Avoid release to the environment.

##### Response

Collect spillage.

##### 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
ALCOHOLS, C10-16	67762-41-8	100

  

Constituents	CAS #	Percent
1-DODECANOL	112-53-8	> 65
1-DECANOL	112-30-1	< 1

### 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 ingestion of a large amount does occur, call a poison control center immediately.

#### Notes to physician

Not applicable.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### 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. Water runoff can cause environmental damage.

### 6. Accidental release measures

#### Personal precautions

Local authorities should be advised if significant spillages cannot be contained.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

#### Methods for containment

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Collect spillage.

## Methods for cleaning up

Large Spills: Prevent product from entering drains. Do not allow material to contaminate ground water system. Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.

Never return spills in original containers for re-use.

## 7. Handling and storage

### Handling

Avoid release to the environment. Do not empty into drains.

### Storage

Use care in handling/storage.

## 8. Exposure controls / personal protection

### Personal protective equipment

#### Hand protection

Not normally needed.

#### Eye/face protection

Not normally needed.

#### Skin protection

No special protective equipment required.

#### Respiratory protection

No personal respiratory protective equipment normally required.

## 9. Physical and chemical properties

### Appearance

Liquid.

### Physical state

Liquid.

### Color

Water white.

### Odor

Fresh, Waxy.

### Odor threshold

Not available.

### pH

Not available.

### Melting point/Freezing point

64.4 - 71.6 °F (18 - 22 °C)

### Boiling point

>= 350 °F (>= 176.7 °C)

### Flash point

290 °F (143.3 °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

<= 10 mm Hg

### Vapor density

Not available.

### Relative density

Not available.

### Solubility (H2O)

Not available.

### Octanol/H2O coeff

Not available.

### Auto-ignition temperature

Not available.

### Decomposition temperature

Not available.

### Viscosity

Not available.

### Specific gravity

0.82

## 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

ALCOHOLS, C10-16 (67762-41-8)

#### Test Results

Acute Oral LD50 Rat:  $\geq$  20.5 g/kg of body weight; Based on compositionally similar product

#### Constituents

1-DECANOL (112-30-1)

#### Test Results

Dermal Human: 4.00 hours Significantly less irritating than 20% Sodium Lauryl Sulfate (positive control).

Dermal Rabbit: 83 mg Severe eye irritation.

Dermal Rabbit: OECD Test Guidelines 404, PII=3.33.

Acute Dermal LD50 Rabbit: 3560 mg/kg

Acute Oral LD50 Rat: Practically non-toxic by acute oral route.

Acute Dermal LD50 Guinea pig:  $>$  2000 mg/kg OECD Test Guideline 402

Acute Oral LD50 Rat:  $>$  2000 mg/kg OECD Test Guideline 401

Presumed Non-Toxic Dermal Human: 99999 Patch Test. Not sensitizing (Literature value)

Presumed Non-Toxic Dermal Rabbit: 99999 OECD Guideline 404

Presumed Non-Toxic Other Rabbit: 99999 Eye Irritation. OECD Test Guideline 405

1-DODECANOL (112-53-8)

**Skin corrosion/irritation** Not available.

**Serious eye damage/eye irritation** Not available.

**Other information** Not available.

## 12. Ecological information

### Ecotoxicological data

#### Product

ALCOHOLS, C10-16 (67762-41-8)

#### Test Results

LC50 Bluegill (*Lepomis macrochirus*): 894.5 mg/l 96.00 hours  
Alkyl Range: C12-14

LC50 Fathead minnow (*Pimephales promelas*): 1.01 mg/l 96.00 hours  
1-Dodecanol (112-53-8)

LC50 Trout family (*Salmonidae*):  $\geq$  1 mg/l 96.00 hours  
Tetradecanol (112-72-1)

#### Constituents

1-DECANOL (112-30-1)

#### Test Results

EC50 Water flea (*Daphnia magna*): 11 mg/l 24.00 hours

LC50 Bleak (*Alburnus alburnus*): 7.2 mg/l 96.00 hours

LC50 Fathead minnow (*Pimephales promelas*): 2.4 mg/l 96.00 hours

LC50 Fathead minnow (*Pimephales promelas*): 2.3 mg/l 96.00 hours

1-DODECANOL (112-53-8)

Green algae (*Desmodesmus subspicatus*): Water solubility not toxic. (Literature Value)

EC50 Ide, silver or golden orfe (*Leuciscus idus*): 1 - 10 mg/l  
96.00 hours OECD Test Guideline 203

EC50 Water flea (*Daphnia magna*): 0.1 - 1 mg/l 48.00 hours  
OECD Test Guideline 202

**Ecotoxicity** Components of this product are hazardous to aquatic life.

**Environmental effects** Harmful to aquatic life.

**Persistence / degradability** Not established.

**Bioaccumulation** Not established.

**Aquatic toxicity** Very toxic to aquatic organisms.

**Mobility** Not established.

**Other adverse effects** Not established.

### 13. Disposal considerations

**Disposal methods** Do not allow this material to drain into sewers/water supplies. Do not dispose of waste into sewer. Dispose of contents/container in accordance with local/regional/national/international regulations.

### 14. Transport information

#### ADR

<b>UN number</b>	3082
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-Dodecanol)
<b>Hazard class</b>	9
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	1-Dodecanol
<b>Labels required</b>	9
<b>Hazard ID</b>	90
<b>Item</b>	M6
<b>Transport Category</b>	3

#### IATA

<b>UN number</b>	3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (1-Dodecanol)
<b>Hazard class</b>	9
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	1-Dodecanol
<b>ERG code</b>	9L

#### IMDG

<b>UN number</b>	3082
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-Dodecanol)
<b>Hazard class</b>	9
<b>Subsidiary hazard class</b>	•
<b>Packing group</b>	III
<b>EmS No.</b>	F-A, S-F
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	1-Dodecanol

#### RID

<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-Dodecanol)
<b>Hazard class</b>	9
<b>UN number</b>	3082
<b>Packing group</b>	III
<b>Marine pollutant</b>	1-Dodecanol
<b>Labels required</b>	9
<b>Item</b>	M6
<b>Transport Category</b>	3



**ADR**



**IATA**



**IMDG**



RID

## 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
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

02-04-2011