

## MATERIAL SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company

#### 1.1. Produce identifier

Chemical name	Lauryl/ Cetyl Alcohol
Trade name	TECKNO A1216
CAS No.	67762-41-8

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Production of alkyl amines, aluminum rolling lubricants, tertiary amines, cosmetics, ethoxylates, halides/mercaptans, polymerization stabilizers, and sulfation.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Teck Guan (China) Ltd.  
 No 1 Teck Guan Road, Rugao Port, Jiangsu, China  
 226532  
 +86-513-8758 5000  
[www.teckguan.com/cn](http://www.teckguan.com/cn)

### SECTION 2: Hazards identification

#### 2.1. GHS classification

Environmental hazards	Harzardous to the aquatic environment, acute hazard	Category 1
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#### 2.2. GHS label elements

Signal word	Warning
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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.

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

Components	CAS No.	Percent
ALCOHOLS, C10 ~ 16	67762-41-8	100
Constituents	CAS No.	Percent
1-DODECANOL	112-53-8	>=60
1-TETRADECANOL	112-72-1	20 – 30
1-HEXADECANOL	36653-82-4	4 – 10

## SECTION 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 plenty of water / Shower. Get medical attention if irritation develops or persists.
Eye	Rinse with a lot of water at least 15 minutes. Get medical attention if irritation develops or persists.
Ingestion	Never give an unconscious person anything by mouth. Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Notes to physician	Not applicable.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide ( CO2 ) .

### 5.2. Special hazards arising from the substance or mixture

On burning: Release of (carbon monoxide - carbon dioxide)

### 5.3. 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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions

Use proper Personal protective equipment to avoid the inhalation of vapor, fog or gas. Local authorities should be advised if significant spillages cannot be contained.

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

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 for 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.

## SECTION 7: Handling and storage

### 7.1. Handling

Do not get this material in contact with eyes. When using, don't eat or drink or smoke Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Use care in handling / storage.

## 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep out of the reach of children. Store in a cool, dry area. Use care in handling / storage. Nitrogen blanket recommended for large tanks ( capacity 1000 m<sup>3</sup> or higher. )  
Unsuitable containers: copper, copper alloy, zinc, zinc alloy, aluminum, aluminum alloy.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Personal protective equipment

Eye / Face protection	Not normally needed.
Skin protection	No special protective equipment required.
Respiratory protection	No personal respiratory protective equipment normally required.
Hand protection	Not normally needed.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	liquid @ 72°F ( 22°C )
Color	colorless
Odor	fresh, waxy
Odor threshold	not available
pH	not available
Melting point	17 - 21°C ( 63 - 70°F )
Boiling point	514 - 592°F (268 - 311°C) @ 760 mmHg (101.3kPa)
Flash point	265 – 285°F (129 – 141°C) PMCC
Flammability ( Train fire )	Not available
Evaporation rate	Not available
Vapor pressure	<0.1 mmHg @ 71°F (21.7°C)
Vapor density	Not available
Specific gravity	0.840@ 22/22°C
Solubility (H <sub>2</sub> O)	Negligible @ 77°F (25°C)
Octanol / H <sub>2</sub> O coeff	Not available
Auto-ignition temperature	252°C (485°F)
Decomposition temperature	Not available
Viscosity	14.5 cSt @ 38°C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Material is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

### 10.4. Conditions to avoid

Not available

### 10.5. Materials to avoid

Strong oxidizing agents

## 10.6. Hazardous decomposition

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.

## SECTION 11: Toxicological information

### 11.1. Toxicological data

Product	Test Results
ALCOHOLS , C10 - 16 ( 67762-41-8 )	Acute Oral LD50 Rat: >=20.5 g/kg of body weight; Based on compositionally similar product
Constituents	Test Results
1-DECANOL ( 120-30-1 )	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.
1-DODECANOL ( 112-53-8 )	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
Skin corrosion / irritation	Not available.
Serious eye damage / eye irritation	Not available.
Other information	Not available.

## SECTION 12: Ecological information

### 12.1. Ecotoxicological data

Product	Test Results
ALCOHOLS , C10 - 16 ( 67762-41-8 )	LC50 Bluegill ( <i>Lepomis macrochirus</i> ) : 894.5 mg/L 96.00 hours Alkyl Range C12 - 14 LC50 fathead minnow ( <i>Pimephales promelas</i> ) 1.01mg/L 96.00 hours 1 – Dodecanol (112-53-8) LC50 Trout family ( <i>Salmonidae</i> ) : >=1 mg/L 96.00 hours Tetradecanol (112-72-1)
Constituents	Test Results
1-DECANOL ( 120-30-1 )	EC50 Water flea ( <i>Daphnia magna</i> ) : 11 mg/L 24.00 hours LC50 Bleak ( <i>Alburnus alburnus</i> ) : 7.2 mg/L 96.00 hours LC50 fathead minnow ( <i>Pimephales promelas</i> ) : 2.4 mg/L 96.00 hours
1-DODECANOL ( 112-53-8 )	Green algae ( <i>Desmodesmus subspicatus</i> ) : Water solubility not toxic. (Literature Value ) EC50 Ide, silver or golden orfe ( <i>Leuciscus idus</i> ) : 1 – 10 mg/L 96.00 hours OECD Test Guideline 203 EC50 Water flea ( <i>Daphnia magna</i> ) : 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.

## SECTION 13: Disposal considerations

### 13.1. 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.

## SECTION 14: Transport information

### ADR

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

### IATA

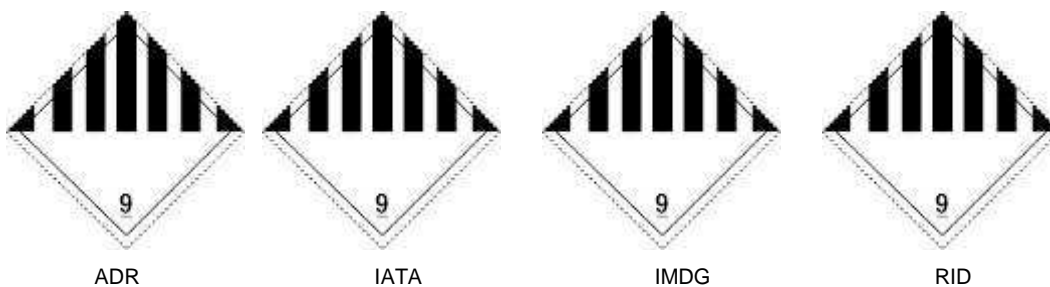
UN number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (1-Dodecanol)
Hazard class	9
Packing group	III
Environmental hazards	
Marine pollutant	1-Dodecanol
ERG code	9L

### IMDG

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

### RID

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



## SECTION 15: Regulatory information

### Inventory status

Country (s) or region	Inventory name	On inventory ( yes/no ) <sup>1</sup>
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

<sup>1</sup> "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

## SECTION 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 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. We assume no responsibility for injury to the recipient or third persons, or°For any damage to any property resulting°From misuse of the controlled product.