

## Material Safety Data Sheet

### LAURYL ALCOHOL

#### Section 1 - Product Identification

Synonyms : 1-Dodecanol, Dodecyl alcohol, Alcohol C12  
Molecular Weight : 186.34 g/mol  
Chemical Formula :  $C_{12}H_{26}O$   
Company Identification : Tradeasia International Pte. Limited  
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore  
Tel: +65-6227 6365  
Fax: +65-6225 6286  
Email: contact@chemtradeasia.com  
Recommended use of the chemical and restrictions on use  
The product is used in industrial manufacturing, in particular in :  
- Soap and Detergent, Textile, Paint, Ink and Coating, and Beauty and Personal Care

#### Section 2 – Composition/Information on Ingredients

Chemical Name	EC No/CAS No	Purity, %
Lauryl Alcohol	203-982-0/112-53-8	max. 99.9

#### Section 3 – Hazards Identification

##### 3.1 Classification

Classification according to Regulation (EC) No. 1272/2008 [CLP]

##### 3.2 Label elements

###### Signal Word

Warning

###### Hazard Statements

H319 Causes serious eye irritation.

H411 Very toxic to aquatic life with long lasting effects

###### Precautionary Statements

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### Section 4 – Composition/ information on ingredients

##### 4.1 Composition comments

Component Lauryl Alcohol

CAS No. 112-53-8

Weight >95

#### Section 5 – First-Aid Measures

## **5.1. Description of first aid measures**

### **Skin contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

### **Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

### **Inhalation**

Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

### **Ingestion**

Clean mouth with water. Do NOT induce vomiting. Get medical attention

## **5.2. Most important symptoms and effects, both acute and delayed**

No information available.

## **5.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically

## **Section 6 – Fire Fighting Measures**

### **6.1. Suitable Extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **6.2. Specific hazards arising from the chemical**

Do not allow run-off from fire-fighting to enter drains or water courses.

### **6.3. Special protective actions for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **Section 7 – Accidental Release Measures**

### **7.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required. Ensure adequate ventilation.

### **7.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

### **7.3. Methods and material for containment and cleaning up**

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## **Section 8 – Handling and Storage**

### **8.1. Precautions for safe Handling**

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe mist/vapors/spray. Wash hands before breaks and immediately after handling the product. Minimize dust generation and accumulation.

## Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

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

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) Class 11 (Germany)

## Section 9 – Exposure Controls/Personal Protection

### 9.1. Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

### 9.2. Individual protection measures, such as personal protective equipment (PPE)

#### Respiratory protection

No protective equipment is needed under normal use conditions.

#### Eyes and face protection

Goggles (European standard - EN 166)

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

## Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

## Section 10 – Physical and Chemical Properties

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

Appearance : White, Solid

Odour : Organic

Odour threshold : N.A.

pH : 7

Melting point : 22 - 27 °C

Boiling point : 258 - 265 °C

Flash point : 119 °C

Evaporation rate : Not applicable - Solid

Flammability : N.A.

Upper/lower flammability or explosive limits : 4 / 0.6

Vapour pressure : <0.1 mbar @ 20 °C

Vapour density : Not applicable

Relative density : N.A.

Solubility : N.A.

Partition coefficient: n-octanol/water : N.A

Auto-ignition temperature : 260 °C

Decomposition temperature : N.A

Viscosity : N.A

#### **10.2. Other information**

Molecular weight : 186.34 g/mol

Specific gravity : 0.835

### **Section 11 – Stability and Reactivity**

#### **11.1. Reactivity**

None known, based on information available

#### **11.2. Chemical stability**

Stable under normal conditions.

#### **11.3. Possibility of hazardous reactions**

Hazardous polymerization does not occur.

#### **11.4. Conditions to avoid:**

Incompatible products. Avoid dust formation.

#### **11.5. Incompatible materials**

Acids. Alcohols. Acid anhydrides.

#### **11.6. Hazardous decomposition products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### **Section 12 – Toxicological Information**

#### **12.1 Health effects associated with ingredients**

LD<sub>50</sub> Oral >5000 mg/kg (Rat)

LD<sub>50</sub> Dermal >5000 mg/kg (Rabbit)

#### **12.2 Health effects associated with compounds formed during processing**

No new/additional compounds are expected to be formed during processing.

#### **12.3 Information on likely routes of exposure**

Oral, Dermal, Inhalation

### **Section 13 – Ecological Information**

#### **13.1. Ecotoxicity**

##### **Freshwater fish**

LC<sub>50</sub>: = 0.1855 mg/L, 96h (Pimephales promelas)

LC<sub>50</sub>: = 1.01 mg/L, 96h flow-through (Pimephales promelas)

##### **Water Fleas**

EC<sub>50</sub>: = 320 mg/L, 48h (Daphnia magna)

### 13.2.3. Bioaccumulative potential

Product has a high potential to bioconcentrate

### 13.4. Mobility in soil

The product is insoluble and floats on water Spillage unlikely to penetrate soil . Is not likely mobile in the environment due its low water solubility. Is not likely mobile in the environment due its low water solubility and propensity to bind to soil particles

### 13.5. Other adverse effects

This product does not contain any known or suspected substance

## Section 14 – Disposal Considerations

### 14.1. Disposal methods

#### Waste from Residues/Unused Products

Should not be released into the environment. Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

#### Contaminated Packaging

Dispose of this container to hazardous or special waste collection point.

#### European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

#### Other Information

Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not let this chemical enter the environment.

## Section 15 – Transport Information

15.1. UN number : UN3077

15.2. UN proper shipping name : Environmentally hazardous substances, solid, n.o.s

15.3. Transport of hazard classes : 3

15.4. Packing group : III

15.5. Environmental hazards : Dangerous for the environment. Product is a marine pollutant according to the criteria set by IMDG/IMO

15.6. Special precautions for user : No special precautions required

15.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable, packaged goods

## Section 16 – Regulatory Information

### 15.1. Safety, health and environmental regulations

#### International Inventories

X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia (AICS), Korea (ECL).

Ensure all national/local regulations are observed.

## Section 16 : Additional Information

### 16.1. Mainly changes made to the previous version of this Material Safety Data Sheet (MSDS):

- This MSDS complies with ISO 11014; the requirements of UN-GHS

Revision No	Revision content
05	• This SDS is updated in accordance with the GHS (Rev.6) (2015)-Guidance on the

Compilation of Safety data Sheets.
------------------------------------

## 16.2. List of abbreviation and acronyms used in this MSDS

**SDS** : Safety Data Sheets

**Index N°** : atomic number of the element most characteristic of the properties of the substance

**CAS No** : Chemical Abstracts Service number

**EC No** : EINECS Number : European Inventory of Existing Commercial Substances

**Repr. Cat. 2** : Substance presumed human reproductive toxicant

**Acute Oral Cat. 5** : Substance which is of relatively low acute oral toxicity.

**GHS** : Globally Harmonised System of Classification and Labelling

**LD<sub>50</sub>** : Median Lethal Dose

**LC<sub>50</sub>** : Lethal Concentration, 50%

**N.A.** : Not Applicable

**OSHA** : Occupational Safety & Health Administration

**Cal OSHA** : The State of California Division of Occupational Safety and Health (DOSH)

**PEL** : Permissible Exposure Limits

**ACGIH** : American Conference of Governmental Industrial Hygienists

**TLV** : Threshold Limit Value

**Japanese MITI** : Japanese Ministry of International Trade and Industry

**EC<sub>50</sub>** : Half maximal effective concentration

**UN** : United Nations

**U.S. EPA TSCA Inventory**: Inventory of the chemical substances manufactured or processed in the United States according to Toxic Substances Control Act compiled and published under the authority of the Environmental Protection Agency

**Canadian DSL**: Canadian Domestic Substances List

## 16.3. List of relevant hazard statements and precautionary statements used in this MSDS

### Hazard Statement

**H361 d**: Suspected of damaging the unborn child

**H319**: Causes serious eye irritation

**H303**: May be harmful if swallowed

### Precautionary Statements

#### Prevention

**P201**: Obtain special instructions before use.

**P202**: Do not handle until all safety precautions have been read and understood.

**P281**: Use personal protective equipment as required.

**P264**: Wash eyes thoroughly after handling.

**P280**: Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response

**P308 + P313**: If exposed or concerned: get medical advice/attention.

**P305+P351+P338**: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313**: If eye irritation persists: Get medical advice/attention.

#### Storage

**P405**: Store locked up.

#### Disposal

**P501**: Dispose of contents/container to in accordance with local regulations.

## 16.4. References

1. Litovitz T L, Norman S A, Veltri J C, Annual Report of the American Association of Poison Control Centers Data Collection System. Am. J. Emerg. Med. (1986), 4, 427-458

2. Denton SM (1996). Acute oral toxicity study in the rat: anhydrous boric acid. Final report. Report no.: 1341/7-1032.
3. National Toxicology Program (NTP) – Technical Report Series No. TR324, NIH Publication No. 88 2580 (1987), PB88 213475/XAB
4. Fail et al., Fund. Appl. Toxicol. (1991) 17, 225-239
5. Heindel et al., Fund. Appl. Toxicol. (1992) 18, 266-277
6. Birge W J, Black J A, EPA-560/-76-008 (April 1977) PB 267 085
7. Scialli AR, Bonde JP, Brüske-Hohlfeld I, Culver D, Li Y, Sullivan FM; ELSEVIER 2009
8. Robbins WA, Xun L, Jia J, Kennedy N, Elashoff DA, Ping L. ;ELSEVIER 2009;(Reproductive Toxicology)
9. Hansveit and Oldersma, 2000; TNO Nutrition and Food Research Institute. Report No. V99.157.
10. Gersich, FM (1984a). Environ.Toxicol.Chem., 3 #1, 89-94 (1984)
11. Soucek et al., 2010. Illinois Natural History Survey, University of Illinois.

For general information on the toxicology of borates see ECETOC Technical Report No. 63 (1995); Patty's Industrial Hygiene and Toxicology, 4th Edition Vol. II, (1994) Chap. 42, 'Boron'.

#### **16.5. Disclaimer of Liability**

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its accuracy, reliability or completeness. The conditions or methods of handling, storage use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.