

## Material Safety Data Sheet

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Version 1.7  
According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

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#### 1 - Product and Company Information

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Product Name	1-DODECANOL, REAGENT GRADE, 98%
Product Number	126799
Company	Sigma-Aldrich Pty. Ltd. 12 Anella Avenue Castle Hill NSW 2154 Australia
Technical Phone #	+61 2 9841 0555 (1800 800 097)
Fax	+61 2 9841 0500 (1800 800 096)
Emergency Phone #	+44 8701906777 (1800 448 465)

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#### 2 - Composition/Information on Ingredients

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Product Name	CAS #	EC no	Annex I Index Number
1-DODECANOL	112-53-8	203-982-0	None
Formula	C12H26O		
Molecular Weight	186.34 AMU		
Synonyms	Alcohol C-12 * Alfol 12 * Cachalot L-50 * Cachalot L-90 * CO 12 * CO-1214 * CO-1214N * CO-1214S * n-Dodecan-1-ol * 1-Dodecanol * n-Dodecyl alcohol * Dytol J-68 * EPAL 12 * Lauric alcohol * Laurinic alcohol * Lauryl 24 * Lauryl alcohol * n-Lauryl alcohol, primary * Lorol 5 * Lorol 7 * Lorol 11 * MA-1214 * Sipol L12		

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#### 3 - Hazards Identification

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SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
Irritating to skin. Very toxic to aquatic organisms.

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#### 4 - First Aid Measures

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##### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

##### AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

##### AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

**AFTER INGESTION**

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

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**5 - Fire Fighting Measures****EXTINGUISHING MEDIA**

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**SPECIAL RISKS**

Specific Hazard(s): Emits toxic fumes under fire conditions.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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**6 - Accidental Release Measures****PROCEDURE(S) OF PERSONAL PRECAUTION(S)**

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**METHODS FOR CLEANING UP**

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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**7 - Handling and Storage****HANDLING**

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**STORAGE**

Conditions of Storage: Keep tightly closed.

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**8 - Exposure Controls / Personal Protection****ENGINEERING CONTROLS**

Safety shower and eye bath. Mechanical exhaust required.

**GENERAL HYGIENE MEASURES**

Wash thoroughly after handling.

**PERSONAL PROTECTIVE EQUIPMENT**

Respiratory Protection: Government approved respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

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**9 - Physical and Chemical Properties**

Appearance	Physical State: Solid Color: White	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	260 - 262 °C	760 mmHg
MP/MP Range	24 - 27 °C	
Flash Point	121 °C	Method: closed cup

Flammability	N/A	
Autoignition Temp	260 °C	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	Lower: 0.6 % Upper: 4 %	
Vapor Pressure	0.1 mmHg	20 °C
SG/Density	0.833 g/cm3	
Partition Coefficient	Log Kow: 5.13	
Viscosity	N/A	
Vapor Density	7.4 g/l	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

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## 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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## 11 - Toxicological Information

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RTECS NUMBER: JR5775000

### ACUTE TOXICITY

LD50  
Oral  
Rat  
> 12800 mg/kg

LD50  
Skin  
Guinea pig  
>10 ML/KG

### IRRITATION DATA

Skin  
Rabbit  
Remarks: Moderate irritation effect  
Skin  
Rabbit  
Remarks: Mild irritation effect  
Skin  
Human  
Remarks: Mild irritation effect  
Eyes  
Rabbit

Remarks: Mild irritation effect

Skin

Human

75 mg

3D

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Remarks: Severe irritation effect

#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

#### CHRONIC EXPOSURE - CARCINOGEN

Mouse

Route of Application: Skin

Exposure Time: 39W

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors. Tumorigenic: Tumors at site or application.

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#### 12 - Ecological Information

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#### ELIMINATION

Elimination: 58 - 79 %

BIOACCUMULATION POTENTIAL: Indication of bioaccumulation.

#### ECOTOXICOLOGICAL EFFECTS

Test Type: LC50 Fish

Species: Pimephales promelas (Fathead minnow)

Time: 96 h

Value: 1 mg/l

Test Type: LC50 Fish

Species: Pimephales promelas (Fathead minnow)

Time: 96 h

Value: 1.92 mg/l

Test Type: LC50 Fish

Species: Pimephales promelas (Fathead minnow)

Time: 96 h

Value: 0.18 mg/l

Test Type: EC50 Daphnia

Species: Daphnia magna

Time: 48 h

Value: 320 mg/l

Test Type: EC50 Algae

Species: Scenedesmus subspicatus

Time: 96 h

## 13 - Disposal Considerations

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### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

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## 14 - Transport Information

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### RID/ADR

UN#: 3077  
Class: 9  
PG: III  
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s

### IMDG

UN#: 3077  
Class: 9  
PG: III  
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s  
Marine Pollutant: No  
Severe Marine Pollutant: No  
Technical Name: Required

### IATA

UN#: 3077  
Class: 9  
PG: III  
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s  
Inhalation Packing Group I: No  
Technical Name: Required

## 15 - Regulatory Information

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### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xi N

Irritant. Dangerous for the environment.

R-PHRASES: 38 50

Irritating to skin. Very toxic to aquatic organisms.

S-PHRASES: 61

Avoid release to the environment. Refer to special instructions/safety data sheets.

### COUNTRY SPECIFIC INFORMATION

#### Germany

WGK: 1

#### SWITZERLAND

SWISS POISON CLASS: 5

## 16 - Other Information

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### WARRANTY

The above information is believed to be correct but does not

purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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