



SIGMA-ALDRICH

Material Safety Data Sheet

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Version 1.80

Section 1 - Product and Company Information

Product Name 1-Dodecanol, reagent grade, 98%
Product Number 126799
Brand Aldrich Chemical
Company Sigma-Aldrich
Street Address 3050 Spruce Street
City, State, Zip, Country SAINT LOUIS, MO 63103 US
Technical Phone: 800-325-5832
Fax: 800-325-5052
Emergency Phone: 314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313	EC no	Annex I Index Number
1-DODECANOL	112-53-8	No	203-982-0	

Formula C12H26O
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 L12Dodecyl alcohol

Section 3 - Hazards Identification

Emergency Overview
Irritant. Dangerous for the environment.
Irritating to skin. Very toxic to aquatic organisms.

HMIS Rating
Health: 2 Flammability: 1 Reactivity: 0

NFPA Rating
Health: 2 Flammability: 1 Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

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

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

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

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

Section 5 - Fire Fighting Measures

Flash Point: 249.8 °F 121 °C
Explosion Limits: Lower: 0.6 % Upper: 4 %
Autoignition Temp: 260 °C

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

Firefighting
Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s)
Emits toxic fumes under fire conditions.

Section 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.

Section 7 - Handling and Storage

Handling
User Exposure
Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage
Suitable
Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls
Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment
Respiratory
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.
Hand
Compatible chemical-resistant gloves.
Eye
Chemical safety goggles.

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General Hygiene Measures
Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance	Physical State	Color
	Solid	White
Molecular Weight	186.34 AMU	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	260 - 262 °C	760 mmHg
MP/MP Range	24 - 27 °C	
Freezing Point	N/A	
Vapor Pressure	0.1 mmHg	20 °C
Vapor Density	7.4 g/l	
Saturated Vapor Conc.	N/A	
SG/Density	0.833 g/cm3	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Partition Coefficient	Log Kow: 5.13	
Decomposition Temp.	N/A	
Flash Point °F	249.8 °F	Method: closed cup
Flash Point °C	121 °C	Method: closed cup
Explosion Limits	Lower: 0.6 % Upper: 4 %	
Flammability	N/A	
Autoignition Temp	260 °C	
Refractive Index	1.442	
Solubility	N/A	

N/A = not available

Section 10 - Stability and Reactivity

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.

Section 11 - Toxicological Information

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.

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

RTECS Number: JR5775000

Toxicity Data

Oral - Rat: > 12800 mg/kg (LD50)
Skin - Guinea pig: >10 ML/KG (LD50)

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 I
Remarks: Severe irritation effect

Chronic Exposure- Carcinogen

Mouse - Skin: 19 GM/KG 39W I
Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.
Tumorigenic: Tumors at site of application.

Section 12 - Ecological Information

No data available.

Accumulation
Bioaccumulation Potential
Indication of bioaccumulation.

Acute Ecotoxicity Tests
Test Type
LC50 Fish
Species
Pimephales promelas (Fathead minnow)

Time: 96.0 h
Value: 1 mg/l
Test Type LC50 Fish
Species Pimephales promelas (Fathead minnow)
Time: 96.0 h
Value: 1.92 mg/l
Test Type LC50 Fish
Species Pimephales promelas (Fathead minnow)
Time: 96.0 h
Value: 0.18 mg/l
Test Type EC50 Daphnia
Species Daphnia magna
Time: 48.0 h
Value: 320 mg/l
Test Type EC50 Algae
Species Scenedesmus subspicatus
Time: 96.0 h
Value: 0.62 - 0.97 mg/l

Elimination

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

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.

Section 14 - Transport Information

DOT

Proper Shipping Name: None
Non-Hazardous for Transport This substance is considered to be nonhazardous for transport.

IATA

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s
IATA UN Number: 3077
Hazard Class: 9
Packing Group: III

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xi N

Indication of Danger

Irritant. Dangerous for the environment.

Risk Statements R: 38 50

Irritating to skin. Very toxic to aquatic organisms.

Safety Statements S: 61

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

US Classification and Label Text

Indication of Danger

Irritant. Dangerous for the environment.

Risk Statements

Irritating to skin. Very toxic to aquatic organisms.

Safety Statements

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

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

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. SigmaAldrich 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 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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