

1-DODECANOL

MSDS Number: D8784 --- Effective Date: 12/08/96

1. Product Identification

Synonyms: Dodecyl alcohol; lauryl alcohol; Duodecyl alcohol; Lauric alcohol. CAS No.: 112-53-8 Molecular Weight: 186.34 Chemical Formula: CH3(CH2)11OH Product Codes: L034

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
	110 52 0		
Lauryl Alcohol	112-53-8	98 - 1008	Yes

3. Hazards Identification

Emergency Overview

WARNING! CAUSES SEVERE SKIN AND EYE IRRITATION.

J.T. Baker SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 1 - Slight

Flammability Rating: 1 - Slight Reactivity Rating: 1 - Slight Contact Rating: 1 - Slight Lab Protective Equip: GOGGLES; LAB COAT Storage Color Code: Orange (General Storage)

Potential Health Effects

Inhalation: No adverse health effects expected from inhalation.

Ingestion:

Low oral toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

Skin Contact: Causes severe skin irritation.

Eye Contact: Causes severe irritation.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately. Aspiration hazard.

Skin Contact:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Wash clothes before reuse. Get medical attention if irritation develops or persists.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

Flash point: 127C (261F) CC Autoignition temperature: 275C (527F) Slight fire hazard when exposed to heat or flame.

Explosion:

Above the flash point, explosive vapor-air mixtures may be formed.

Fire Extinguishing Media:

Dry chemical, alcohol foam or carbon dioxide. Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases. Water or foam may cause frothing.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! J. T. Baker SOLUSORB(tm) solvent adsorbent is recommended for spills of this product.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Colorless solid below, and colorless liquid above melting point.

Odor: Floral odor.

Solubility: Insoluble in water.

Specific Gravity: 0.83

pH: No information found.

% Volatiles by volume @ **21C** (**70F**): No information found.

Boiling Point: 260 - 262C (500 - 504F)

Melting Point: 24 - 27C (75 - 81F)

Vapor Density (Air=1): 6.4

Vapor Pressure (mm Hg): 0.0008 @ 25C (77F)

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition. May produce acrid smoke and irritating fumes when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers.

Conditions to Avoid: Heat, incompatibles.

11. Toxicological Information

Oral rat LD50: 12800 mg/Kg;Irritation data, skin, human: 75mg/3D-I; Investigated as a tumorigen.

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-----\Cancer Lists\-----NTP Carcinogen---

Ingredient Known Anticipated IARC Category

Lauryl Alcohol (112-53-8) No No No None
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12. Ecological Information

Environmental Fate:

When released into the soil, this material is expected to readily biodegrade. This material has a log octanol-water partition coefficient of greater than 3.0. When released into water, this material is expected to readily biodegrade. When released into water, this material is not expected to evaporate significantly. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day.

Environmental Toxicity:

This material is expected to be toxic to aquatic life. The LC50/96-hour values for fish are between 1 and 10 mg/l.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

\Chemical Inventory Status - Part 1\ Ingredient	TSCA	FС	Janan	Australia	
				Yes	
\Chemical Inventory Status - Part 2\					
Ingredient		a DSL	NDSL	Phil.	
Lauryl Alcohol (112-53-8)			No		
\Federal, State & International Regulat				 A 313	
	TPQ	Li	st Che	mical Catg.	
\Federal, State & International Regulations - Part 2\					
-		261.33	3 8	(d)	
			 N		
Chemical Weapons Convention: No TSCA 12(b): SARA 311/312: Acute: Yes Chronic: No Fire Reactivity: No (Pure / Liquid)					

Australian Hazchem Code: No information found. Poison Schedule: No information found.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 0 Flammability: 1 Reactivity: 0

Label Hazard Warning:

WARNING! CAUSES SEVERE SKIN AND EYE IRRITATION.

Label Precautions:

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Keep container closed. Wash thoroughly after handling.

Label First Aid:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Flush skin with soap or mild detergent and water for at least 15 minutes. Wash contaminated clothing before reuse. In all cases call a physician.

Product Use: Laboratory Reagent.

Revision Information:

Pure. New 16 section MSDS format, all sections have been revised.

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