

MSDS Number: **D8784** \* \* \* \* \* *Effective Date: 11/21/08* \* \* \* \* \*  
*Supersedes: 02/16/06*



**Material Safety Data Sheet**

From: Mallinckrodt Baker, Inc.  
222 Red School Lane  
Phillipsburg, NJ 08865



24 Hour Emergency Telephone: 908-859-2151  
CHEMTREC: 1-800-424-9300

National Response in Canada  
CANUTEC: 613-996-6666

Outside U.S. And Canada  
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

# 1-DODECANOL

## 1. Product Identification

**Synonyms:** Dodecyl alcohol; lauryl alcohol; Duodecyl alcohol; Lauric alcohol.

**CAS No.:** 112-53-8

**Molecular Weight:** 186.34

**Chemical Formula:** CH<sub>3</sub>(CH<sub>2</sub>)<sub>11</sub>OH

**Product Codes:** L034

## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Hazardous		
-----	-----	-----
-----		
Lauryl Alcohol	112-53-8	98 - 100%
Yes		

### 3. Hazards Identification

#### Emergency Overview

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**WARNING! CAUSES IRRITATION TO SKIN AND EYES.**

**SAF-T-DATA<sup>(tm)</sup>** Ratings (Provided here for your convenience)

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Health Rating: 1 - Slight

Flammability Rating: 1 - Slight

Reactivity Rating: 1 - Slight

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES

Storage Color Code: Orange (General Storage)

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#### Potential Health Effects

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##### **Inhalation:**

No adverse health effects expected from inhalation. May cause irritation to the respiratory tract.

##### **Ingestion:**

Large oral doses may cause irritation to the gastrointestinal tract.

##### **Skin Contact:**

Causes irritation to skin. Symptoms include redness, itching, and pain.

##### **Eye Contact:**

Causes irritation, redness, and pain.

##### **Chronic Exposure:**

No information found.

##### **Aggravation of Pre-existing Conditions:**

No information found.

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### 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.

**Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact:**

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

**Note to Physician:**

Animal studies indicate possible aspiration hazard.

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## 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.

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## 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® solvent adsorbent is recommended for spills of this product.

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## 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.

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## 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 and engineering controls are not feasible, 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.

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## 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.

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## 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 oxidizing agents, acids, strong bases, isocyanates, aliphatic amines.

**Conditions to Avoid:**

Heat, incompatibles.

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## 11. Toxicological Information

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

-----\Cancer Lists\-----

Ingredient Category	---NTP Carcinogen---		IARC
	Known	Anticipated	
Lauryl Alcohol (112-53-8)	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.

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## 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.

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## 14. Transport Information

Not regulated.

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## 15. Regulatory Information

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-----\Chemical Inventory Status - Part 1\-----
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Ingredient                TSCA  EC   Japan
Australia
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-
Lauryl Alcohol (112-53-8)  Yes   Yes  Yes   Yes

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-----\Chemical Inventory Status - Part 2\-----
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Ingredient                Korea  DSL   NDSL  Phil.
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Lauryl Alcohol (112-53-8)  Yes   Yes   No    Yes

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-----\Federal, State & International Regulations - Part 1\-----
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Ingredient                -SARA 302-  -SARA 313-
Catg.                    RQ    TPQ    List  Chemical
-----
Lauryl Alcohol (112-53-8)  No    No     No    No

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-----\Federal, State & International Regulations - Part 2\-----
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Ingredient                CERCLA  -RCRA-  -TSCA-
                    CERCLA  261.33  8(d)
-----
Lauryl Alcohol (112-53-8)  No      No      No

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Chemical Weapons Convention: No      TSCA 12(b): No      CDTA: No  
SARA 311/312: Acute: Yes      Chronic: No      Fire: No      Pressure: No  
Reactivity: No      (Pure / Liquid)

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

### 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: **1** Flammability: **1** Reactivity: **0**

**Label Hazard Warning:**

WARNING! CAUSES IRRITATION TO SKIN AND EYES.

**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 or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

No Changes.

**Disclaimer:**

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