1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name**
1-Dodecanol

**Cat No.**
AC155450000; AC155450010; AC155450050; AC155455000; AC15545J

**Synonyms**
Lauryl alcohol; Dodecyl alcohol

**Recommended Use**
Laboratory chemicals

**Company**
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

**Entity / Business Name**
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

**Emergency Telephone Number**
For information in the US, call: 001-800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 001-201-796-7100
CHEMTREC Phone Number, US: 001-800-424-9300
CHEMTREC Phone Number, Europe: 001-703-527-3887

2. HAZARDS IDENTIFICATION

**WARNING!***

**Emergency Overview**
Irritating to eyes. Very toxic to aquatic organisms***

**Appearance**
White

**Physical State**
Solid

**Odor**
Organic

**Target Organs**
No information available.

**Potential Health Effects**

**Acute Effects**

**Principle Routes of Exposure**

**Eyes**
Irritating to eyes***

**Skin**
May cause irritation
Inhalation  May cause irritation of respiratory tract
Ingestion  Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Chronic Effects  None known

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions  No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Haz/Non-haz</th>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lauryl alcohol</td>
<td>112-53-8</td>
<td>&gt;95</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

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

Skin Contact  Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation  Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion  Clean mouth with water. Get medical attention.

Notes to Physician  Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Flash Point  119°C / 246.2°F

Method -  No information available.

Autoignition Temperature  255°C / 491°F

Explosion Limits

<table>
<thead>
<tr>
<th>Upper</th>
<th>Lower</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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

Unsuitable Extinguishing Media  No information available.

Hazardous Combustion Products  No information available.

Sensitivity to mechanical impact  No information available.

Sensitivity to static discharge  No information available.

Specific Hazards Arising from the Chemical  Keep product and empty container away from heat and sources of ignition.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Ensure adequate ventilation

Environmental Precautions
Should not be released into the environment

Methods for Containment and Clean Up
Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.

Storage
Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment
Eye/face Protection
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin and body Protection
Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Solid

Appearance
White

Odor
organic

Odor Threshold
No information available.

pH
7

Vapor Pressure
<0.1 mbar @ 20 °C

Vapor Density
No information available.

Viscosity
10 mPa.s at 40 °C

Boiling Point/Range
258 - 265°C / 496.4 - 509°F @ 760 mmHg

Melting Point/Range
22 - 27°C / 71.6 - 80.6°F

Decomposition temperature
No information available.

Flash Point
119°C / 246.2°F

Evaporation Rate
No information available.

Specific Gravity
0.835

Solubility
No information available.

log Pow
No data available
9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight
186.34

Molecular Formula
C12 H26 O

10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions.

Conditions to Avoid
Incompatible products.

Incompatible Materials
Acids, Alcohols, Acid anhydrides***

Hazardous Decomposition Products
Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization
Hazardous polymerization does not occur.

Hazardous Reactions
None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
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</thead>
<tbody>
<tr>
<td>Lauryl alcohol</td>
<td>5000 mg/kg (Rat)</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Irritation
No information available.

Toxicologically Synergistic Products
No information available.

Chronic Toxicity

Carcinogenicity
There are no known carcinogenic chemicals in this product

Sensitization
No information available.

Mutagenic Effects
No information available.

Reproductive Effects
No information available.

Developmental Effects
No information available.

Teratogenicity
No information available.

Other Adverse Effects
The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Endocrine Disruptor Information
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity
Very toxic to aquatic organisms***
<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
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<tbody>
<tr>
<td>Lauryl alcohol</td>
<td>0.62 mg/L EC50 = 96 h</td>
<td>1.01 mg/L LC50 96 h</td>
<td>EC50 = 0.038 mg/L 5 min</td>
<td>320 mg/L EC50 = 48 h</td>
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<tr>
<td></td>
<td>0.1855 mg/L LC50 96 h</td>
<td></td>
<td>EC50 = 0.043 mg/L 15 min</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EC50 = 0.057 mg/L 30 min</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>EC50 = 2 mg/L 48 h</td>
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</tbody>
</table>

Persistence and Degradability  No information available
Bioaccumulation/ Accumulation  No information available
Mobility  

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<tr>
<th>Component</th>
<th>log Pow</th>
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<tbody>
<tr>
<td>Lauryl alcohol</td>
<td>5.36***</td>
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</table>

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods  Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

14. TRANSPORT INFORMATION

DOT

<table>
<thead>
<tr>
<th>UN-No</th>
<th>3077***</th>
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<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. ***</td>
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<tr>
<td>Hazard Class</td>
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<td>Packing Group</td>
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TDG

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IATA

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<td>Packing Group</td>
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IMDG/IMO

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15. REGULATORY INFORMATION
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**International Inventories**

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>ENCS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>PICCS</th>
<th>ENCS</th>
<th>AICS</th>
<th>CHINA</th>
<th>KECL</th>
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<tr>
<td>Lauryl alcohol</td>
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<td>X</td>
<td>-</td>
<td>203-982-0</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
</tbody>
</table>

**Legend:**
- X - Listed
- E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P - Indicates a commenced PMN substance
- R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).
- Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

**U.S. Federal Regulations**

- **TSCA 12(b)** Not applicable
- **SARA 313** Not applicable
- **SARA 311/312 Hazardous Categorization**
  - Acute Health Hazard: Yes***
  - Chronic Health Hazard: No
  - Fire Hazard: No
  - Sudden Release of Pressure Hazard: No
  - Reactive Hazard: No
- **Clean Water Act** Not applicable
- **Clean Air Act** Not applicable
- **OSHA** Not applicable
- **CERCLA** Not Applicable
- **California Proposition 65**
  - This product does not contain any Proposition 65 chemicals.
- **State Right-to-Know** Not applicable
- **U.S. Department of Transportation**
  - Reportable Quantity (RQ): N
  - DOT Marine Pollutant: N
  - DOT Severe Marine Pollutant: N
U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade
No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
D2B  Toxic materials ***

16. OTHER INFORMATION

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date
03-May-2012

Print Date
07-Feb-2013***

Revision Summary
(M)SDS sections updated 2 3***

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS