1. IDENTIFICATION

Product identifier

Product code: O2014
Product Name: 2-OCTYL-1-DODECANOL

Other means of identification

Synonyms:
- Exxal 20
- Eutanol G
- 2-Octyldodecanol
- 2-Octyldodecyl alcohol
- Rilanit G 20

CAS #: 5333-42-6
RTECS #: JR4240000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Tom Tyner (USA - West Coast)
Contact Person: Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Warning

Hazard statements
Causes skin irritation
Causes eye irritation
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
May be harmful if inhaled
Harmful to aquatic life with long lasting effects

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical attention
Take off contaminated clothing and wash it before reuse

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Octyl-1-dodecanol</td>
<td>5333-42-6</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms
Causes serious eye irritation
Causes skin irritation
May cause irritation of respiratory tract

Indication of any immediate medical attention and special treatment needed

Product code: O2014
Product name: 2-OCTYL-1-DODECANOL
Notes to Physician:  Treat symptomatically.

Protection of first-aiders
First-Aid Providers:  Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media:  Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.

Unsuitable Extinguishing Media:  No information available.

Specific hazards arising from the chemical

Hazardous combustion products  Carbon Monoxide, Carbon Dioxide.

Specific hazards  May be ignited by heat, sparks or flames.

Special Protective Actions for Firefighters

Specific Methods:  No information available

Special Protective Equipment 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, protective equipment and emergency procedures

Personal Precautions:  Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

Environmental precautions  Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment  Stop leak if you can do it without risk. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up  Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:  Provide sufficient air exchange and/or exhaust in work rooms. All equipment used when handling the product must be grounded. Keep away from incompatible materials. Remove all sources of ignition.

Safe Handling Advice:

O2014
2-OCTYL-1-DODECANOL

Product code:  Product name:  
Page 3 / 11
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Keep away from heat and sources of ignition. Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:
Strong oxidizing agents
Acids
Halogens

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

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<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
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<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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Canada

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<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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Australia and Mexico

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<th>Mexico</th>
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<td>5333-42-6</td>
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<td>None</td>
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</table>

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing
Chemical resistant apron
Gloves

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Appearance: Oily.
Color: Colorless.
Odor: No information available.
Taste: No information available.
Formula: C20H42O
Molecular/Formula weight (g/mole): 298.56
Flammability (solid, gas): No data available
Flashpoint (°C/°F): 188°C/ 370°F
Flash Point Tested according to: Open cup
Autoignition Temperature (°C/°F): 241°C/ 466°F
Upper Explosion Limit (%): No information available
Melting point/range(°C/°F): 1°C/ 33.8°F
Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): 290°C/ 554°F
Bulk density: No information available
Density (g/cm3): No information available
Specific gravity: 0.836
pH: No information available
Evaporation rate: No information available
Vapor density: 10.3
Vapor pressure @ 20°C (kPa): No information available
Odor threshold (ppm): No information available
Partition coefficient (n-octanol/water): No information available
Viscosity: No information available
Miscibility: No information available
Solubility: Insoluble in water

10. STABILITY AND REACTIVITY

Reactivity: No information available

Chemical stability
Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Incompatible Materials: Strong oxidizing agents
Acids
Halogens
Hazardous decomposition products: Carbon oxides.

Other Information
Corrosivity: No information available

Product code: O2014
Product name: 2-OCTYL-1-DODECANOL
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Eyes. Inhalation.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

<table>
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<tr>
<th>Component Information</th>
<th>Value - Acute Toxicity</th>
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</table>

Product Information

LD50/oral/rat =
Value - Acute Toxicity = > 5000 mg/kg

LD50/oral/mouse =
Value - Acute Tox = No information available

LD50/dermal/rabbit
Value - Acute Toxicity = 100 mg/24H

LD50/dermal/rat
VALUE - Acute Tox = 100 mg/24H

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Contact causes skin irritation.

Eye Contact: Causes eye irritation.

Inhalation May cause irritation of respiratory tract.
Ingestion: May cause digestive (gastrointestinal) tract irritation.

Aspiration hazard: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Chronic Toxicity: No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Component</th>
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<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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</table>

ACGIH (American Conference of Governmental Industrial Hygienists)
IARC (International Agency for Research on Cancer)
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity: No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

2-Octyl-1-dodecanol - 5333-42-6

Algae/aquatic plants EC50: =100mg/L (72h, Desmodesmus subspicatus)

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soil: No information available

Other adverse effects: No information available.
13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

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<td>None</td>
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</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Class: No information available
- Packing group: No information available
- Emergency Response Guide Number: No information available
- Marine Pollutant: No data available
- DOT RQ (lbs): No information available
- Special Provisions: No Information available
- Symbol(s): No information available
- Description: No information available

TDG (Canada)
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Marine Pollutant: No Information available
- Description: No information available

ADR
- UN Number: Not regulated
- Proper Shipping Name: No information available
- Transport hazard class(es): No information available
- Packing group: No information available
- Subsidiary Risk: No information available

IMDG
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Marine Pollutant: No information available

RID
- UN Number: Not Regulated
- Proper Shipping Name: No information available
15. REGULATORY INFORMATION

International Inventories

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<tr>
<th>Component</th>
<th>CAS No</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>China IECSC</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
</table>

U.S. Regulations


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity:</th>
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CERCLA/SARA

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<tr>
<th>Component</th>
<th>CAS No</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPOs</th>
<th>Section 302 Extremely Hazardous Substances and ROs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tbody>
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<td>2-Octyl-1-dodecanol</td>
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U.S. TSCA

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>TSCA Section 5(a)2 - Chemicals</th>
<th>TSCA 8(d) - Health and Safety</th>
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</thead>
</table>

Product code: O2014  
Product name: 2-OCTYL-1-DODECANOL
Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification Information: The WHIMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation: This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

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<table>
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<th>Safety Phrases</th>
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<td>CEPA Schedule I - Toxic Substances</td>
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</table>

EU Classification

EU GHS - SV - CLP 1272/2008

<table>
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<th>CAS No</th>
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<tr>
<td>2-Octyl-1-dodecanol</td>
<td>5333-42-6</td>
<td>EU GHS - SV - CLP (1272/2008)</td>
</tr>
</tbody>
</table>

R-phrase(s)
R36 - Irritating to eyes
R38 - Irritating to skin

S-phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 - After contact with skin, wash immediately with plenty of water
S36 - Wear suitable protective clothing

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xi - Irritant

Product code: O2014
Product name: 2-OCTYL-1-DODECANOL

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16. OTHER INFORMATION

Preparation Date: 07/18/2019
Revision date 07/18/2019
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet