SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier

Product code: O1428
Product Name: Oleamide DEA

Other means of identification

Synonyms: N,N-Bis(2-hydroxyethyl)-9-octadecanamide
Airosol O
Amisol ode
Clindrol 2000
Clindrol 2020
Comperlan OD
Diethanololeamide
EMID 6545
Emulsifier WHC
Lauridit OD
Mackamide O
Marlamid D 1885
N,N-Diethanololeamide
Nitrene NO
Oleamide, N,N-bis(2-hydroxyethyl)-
Oleic acid diethanolamide
Oleic acid diethanolamine condensate
Oleic diethanolamide
Schercomid ODA
Stafoam DO
Steinamid DO 280SE
Witcamide 511C

CAS #: 93-83-4
RTECS #: RG2240000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Cosmetics. Shampoo. Research and Development.
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:
Martin LaBenz (West Coast)
Ibad Tirmiz (East Coast)
2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

<table>
<thead>
<tr>
<th>Not Hazardous</th>
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</table>

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>Components</th>
<th>CAS-No.</th>
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<td>100</td>
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4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. 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. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: Health injuries are not known or expected under normal use. May cause eye/skin/respiratory tract irritation.

Indication of any immediate medical attention and special treatment needed

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

Product code: O1428  Product name: Oleamide DEA
5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

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

**Unsuitable Extinguishing Media:**
- No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:**
- Carbon oxides;
- Nitrogen oxides

**Specific hazards:**
- May be combustible at high temperatures
- Container explosion may occur under fire conditions or when heated

**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. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.

**Environmental precautions**
- Prevent further leakage or spillage.

**Methods and material for containment and cleaning up**

**Methods for containment**
- Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

**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. Keep away from incompatible materials.

**Safe Handling Advice**
- Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. 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:
Oxidizing agents. Acids.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### National occupational exposure limits

**United States**

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<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
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**Canada**

- **Canada Occupational Exposure Limits:** Not determined

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<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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**Australia and Mexico**

- **Occupational Exposure Limits for Australia and Mexico:** Not determined

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<th>Components</th>
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<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Oleamide DEA 93-83-4</td>
<td>None</td>
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</tbody>
</table>

#### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation, especially in confined areas. 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
- **Skin and body protection:** Chemical resistant apron. Long sleeved clothing. Gloves.
- **Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.
Odor: Characteristic.
Formula: C22-H43-N-O3
Flashpoint (°C/F): 194 °C/381 °F
Reactivity
Reactive with acids
Reactive with oxidizing agents
Chemical stability
Stability: Stable under recommended storage conditions
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Other Information
Corrosivity: No information available
Special Remarks on Corrosivity: No information available

10. STABILITY AND REACTIVITY

Reactivity
Reactive with acids
Reactive with oxidizing agents

Chemical stability
Stability: Stable under recommended storage conditions
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Other Information
Corrosivity: No information available
Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Principal Routes of Exposure:
Ingestion. Inhalation. Skin. Eyes.

Product code: O1428
Product name: Oleamide DEA
Acute Toxicity

Component Information

*Oleamide DEA - 93-83-4*

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<th>Endpoint</th>
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<tr>
<td>LD50/oral/rat</td>
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<td>LD50/oral/mouse</td>
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<td>LD50/dermal/rabbit</td>
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Product Information

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<td>LC50/inhalation/mouse</td>
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</table>

Symptoms

**Skin Contact:** May cause skin irritation. It may be mildly to moderately irritating in sensitive individuals.

**Eye Contact:** May cause eye irritation

**Inhalation**

May cause respiratory tract irritation.

**Ingestion**

Health injuries are not known or expected under normal use.

**Aspiration hazard**

No information available

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

**Chronic Toxicity**

Prolonged skin contact may defat the skin and produce dermatitis. Prolonged skin contact and absorption may affect the heart. Prolonged skin contact and absorption may affect the bladder.

**Sensitization:**

No information available
Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

<table>
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<tr>
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<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
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Reproductive toxicity: No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: Readily biodegradable
Bioaccumulative potential: No information available
Mobility: 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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14. TRANSPORT INFORMATION

DOT

Product code: O1428 Product name: Oleamide DEA
### 14. TRANSPORT INFORMATION

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<tr>
<th>Section</th>
<th>UN-No:</th>
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<th>Description:</th>
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*Product code: O1428  Product name: Oleamide DEA*
14. TRANSPORT INFORMATION

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
Description: No information available

15. REGULATORY INFORMATION

International Inventories

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<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS (2)-827 (2)-814 (2)-2503</th>
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<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<td>Present</td>
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<td>Present 202-281-7</td>
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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)

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<thead>
<tr>
<th>Components</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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<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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U.S. TSCA

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<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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Canada

WHMIS hazard class:
Non-controlled

Oleamide DEA
Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Product code: O1428
Product name: Oleamide DEA
Oleamide DEA

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<th>Components</th>
<th>Canada (DSL)</th>
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EU Classification

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

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

Indication of danger:

None.

16. OTHER INFORMATION
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