

## 1. Identification

**Product identifier** Lauramine Oxide

**Other means of identification**  
**SDS Number** 328983-01

**Recommended use** For industrial and manufacturing use only.

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**  
**Company name** Level 7 Chemical  
**Address** 255 Sturgis Rd, Conway, AR 72034

**Main Telephone Number** (855) 927-1777

**Emergency #: CHEMTREC** 1-800-424-9300  
**Emergency #: CHEMTREC** 1-703-741-5970 (International Number - Call collect)

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Skin corrosion/irritation Category 2  
 Serious eye damage/eye irritation Category 1

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Danger

**Hazard statement** Causes skin irritation. Causes serious eye damage.

**Precautionary statement**  
**Prevention** Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves.  
**Response** If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
**Storage** Store away from incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in accordance with local, regional, national, and international regulations.  
**Disposal** Dispose of contents and container in accordance with local, regional, national, and international regulations.

**Hazard(s) not otherwise classified (HNOC)** Spills produce extremely slippery surfaces.

**Supplemental information** 30% of the mixture consists of component(s) of unknown acute dermal toxicity. 30% of the mixture consists of component(s) of unknown acute inhalation toxicity. 30% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	65 - 75

Chemical name	Common name and synonyms	CAS number	%
N,N-dimethyldodecan-1-amine oxide		1643-20-5	20 - 25
N,N-dimethyltetradecan-1-amine oxide		3332-27-2	5 - 10

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for clean-up</b>	Not available.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Do not store in zinc, copper, copper alloys, or galvanized containers. Containers should be stored between 5 - 30°C . If material freezes, gently thaw prior to use. Mild agitation may be required.

#### 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

**Individual protection measures, such as personal protective equipment**

**General** Use personal protective equipment as required.  
**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield.  
**Skin protection**  
**Hand protection** Wear appropriate chemical resistant, impervious gloves.  
**Other** Wear appropriate chemical resistant clothing.  
**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.  
**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.  
**Form** Liquid.  
**Color** Colorless to Light Amber

**Odor** Mild Characteristic Soapy

**Odor threshold** Not available.

**pH** 5.5 - 8.5 (10% AQ)

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** > 212.0 °F (> 100.0 °C) Closed Cup

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

### Upper/lower flammability or explosive limits

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not available.

**Vapor density** Not available.

**Relative density** Not available.

### Solubility(ies)

**Solubility (water)** Soluble

**Solubility (other)** Soluble in alcohols

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Slightly viscous

### Other information

**Density** 0.99 g/ml @ 25°C

**Explosive properties** Not explosive.

**Oxidizing properties** Not oxidizing.

**Partition coefficient (oil/water)** Surface-Active

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
<b>Incompatible materials</b>	Peroxides. Phenols. Strong acids. Strong bases. Halogenated materials. Nitrites. Heating above 60°C in the presence of aluminum can result in corrosion and generation of flammable hydrogen gas.
<b>Hazardous decomposition products</b>	Carbon oxides. Nitrogen oxides (NOx).

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Not known.

Product	Species	Test Results
Lauramine Oxide		
<u>Acute</u>		
<b>Dermal</b>		
LD50		> 5000 mg/kg
<b>Oral</b>		
LD50		> 5000 mg/kg

Components	Species	Test Results
N,N-dimethyltetradecan-1-amine oxide (CAS 3332-27-2)		
<u>Acute</u>		
<b>Oral</b>		
LD50	Rat	1064 mg/kg bw/day

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye damage.

### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
Lauramine Oxide		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50	Algae 0.043 mg/l, 96 hours 0.0325 mg/l, 96 hours
Crustacea	EC50	Daphnia magna 7.4 mg/l, 48 hours
Fish	LC50	Danio rerio 33.5 mg/l, 96 hours Fish 29.9 mg/l, 96 hours

Components	Species	Test Results
N,N-dimethyltetradecan-1-amine oxide (CAS 3332-27-2)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna 2.64 mg/l, 48 hours
Fish	LC50	Zebra danio (Danio rerio) 2.4 mg/l, 96 hours

**Persistence and degradability** Biodegradability: > 80% after 28 days with a window of 10 days.

**Bioaccumulative potential** Partition co-efficient (Log Pow): ≤ 4 (n-octanol/water). This product is not expected to bioaccumulate.

### Partition coefficient n-octanol / water (log Kow)

N,N-dimethyldodecan-1-amine oxide 4.67

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** All components of the mixture on the TSCA 8(b) inventory are designated "active".

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

No

**Classified hazard categories**Skin corrosion or irritation  
Serious eye damage or eye irritation**SARA 313 (TRI reporting)**

Not regulated.

**US state regulations****California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision****Issue date** 11-29-2022**Version #** 01**HMIS® ratings** Health: 3

Flammability: 1

**NFPA ratings** Physical hazard: 0

Health: 3

Flammability: 1

**Disclaimer** Instability: 0

The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Level 7 Chemical, provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Level 7 Chemical, knows of no medical condition, other than those noted on this Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

**Revision information**

Product and Company Identification: Alternate Trade Names  
Hazard(s) identification: Disposal  
Hazard(s) identification: Response  
Hazard(s) identification: Storage  
Composition / Information on Ingredients: Disclosure Overrides  
Exposure controls/personal protection: Hand protection  
Physical and chemical properties: Odor  
Toxicological Information: Toxicological Data  
Other information, including date of preparation or last revision: Disclaimer