

# SAFETY DATA SHEET

Oleyl Diamine

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## 1. Identification of the sub stance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : Oleyl Diamine  
Chemical Name : Alkyl Diamine  
CAS-No. : 7173-62-8

### 1.2. Recommended use of the chemical and restrictions on use

Recommended use : Industrial Use  
Non-recommended use(s) : None known.

### 1.3. Details of the supplier of the safety data sheet

Company : Chem International  
6099 Ponders Court  
Greenville, SC 29615  
USA  
Telephone : (864) 458-7868  
Fax : (864) 458-7783

### 1.4. Emergency telephone number

Emergency information : Non-Emergency Phone Number: (864) 458-7868  
In case of emergency call CHEMTREC US: 1-800-424-9300, CHEMTREC WORLD:  
1-703-527-3887.

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation 29CFR 1910.1200

Acute toxicity (Oral)	Category 4	H302
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410
Skin corrosion/irritation	Category 1B	H314

### 2.2. Label elements

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Symbol(s)



Signal word : Danger

Hazard statement : H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statement (Prevention) : P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264a - Wash skin thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement (Response) : P301 + P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P311 - Call a POISON CENTER/doctor.

## 2.3. Other hazards

None known

## 3. Composition/information on ingredients

### 3.1. Substances

#### Classification according to Regulation 29CFR 1910.1200

Chemical Name	NJ Trade secrets CAS-No.	Concentration	Classification
1,3-Propanediamine, N-9-Octadecenyl-, (Z)-	- 7173-62-8	Ø 100.0000%	

Texts of H phrases, see in Chapter 16

### 3.2. Mixtures

-

## 4. First aid measures

### 4.1. Description of first aid measures

General advice :

Inhalation : Move to fresh air. If burning sensation develops in throat or chest, or shortness of breath occurs, get immediate medical attention.

Skin contact : Immediately wash area with soap for 5 minutes, then with water for ten minutes. Next wash with commercial buffering solution until burning ceases or reddening dissipates. Again wash with soap and water for 5 minutes then flush with water for ten minutes. If reddening persists or open sore or blisters develop, see a physician. Contaminated clothing should be laundered by a commercial laundry. Normal washing may be ineffective and result in contamination of other clothes. Inform commercial laundry that clothing has been contaminated with corrosive amines and should be washed separately in hot water and heavy duty detergent. Destroy contaminated shoes and other leather items that cannot be decontaminated.

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- Eye contact : Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get medical attention immediately. If physician is not immediately available, continue flushing with water. Do not use chemical antidote.
- Ingestion : Immediately drink two large glasses of water. Call a physician.

## 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms : No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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## 5. Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, water fog, regular foam

Unsuitable extinguishing media :

### 5.2. Special hazards arising from the substance or mixture

Carbon monoxide, unidentified organic amines and other hazardous organic chemicals may be formed during combustion.

### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Water or foam may cause frothing which can be violent, especially if sprayed into containers of hot, burning liquid.

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## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

### 6.2. Environmental precautions

### 6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg, sand, kieselguhr, universal binder)  
Dispose of absorbed material in accordance with the regulations.

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## 7. Handling and storage

### 7.1. Precautions for safe handling

Handling : No data available

Hygiene measures : Remove contaminated clothing immediately. Wash hands thoroughly with soap and water before breaks and after every working shift. Do not eat, drink or smoke while working.  
Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

General protective measures : No data available

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## 7.2. Conditions for safe storage, including any incompatibilities

### Prevention of fire and explosion

Information : None Known

### Storage

Information : Keep in closed or covered containers when not in use. Store in cool, dry place with adequate ventilation. Do not store near heat or open flame.

Further information on storage conditions : Exercise caution when handling contents of the container. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Whenever possible, use mechanical means to move large and/or heavy objects to help prevent back injuries .

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit(s)

Ingredients	CAS-No.	Statutory basis/list (Update)	Value type (Form of exposure; Expressed as )	Value	Short-term
1,3-Propanediamine, N-9-Octadecenyl-, (Z)-	7173-62-8	OSHA PEL	TWA		
	Not Established				

### 8.2. Exposure controls

#### Engineering controls

Appropriate engineering controls : Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.

#### Personal protective equipment

Eye protection : Use chemical goggles. Full face shield in addition to goggles may be desirable to protect face. Maintain eye wash fountain and safety shower at or near work area.

Hand protection : Wear protective gloves such as: Neoprene or Buna -N.

Body Protection : Impermeable protective clothing is recommended.

Respiratory protection : If ventilation is insufficient, use a respirator with an organic vapor cartridge.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : No data available

Form : liquid

Color : Colorless, clear

Odor : amine-like

Odor Threshold : not measured

pH : ca. 9 - 11  
Remarks: 0.5g in 90/10 Chloroform /Aqueous IPA

Melting point : not measured

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Boiling point : Boiling temperature  
> 250 °C

Flash point : > 200 °F  
Method: SETA Flash CC

Evaporation rate : Slower than ether

Flammability : no data available

Upper  
Explosion/Ignition  
Limit :

Lower explosion limit :

Vapor pressure : ca. 1.33 m bar  
(25 °C)

Relative vapor  
density : Heavier than air

Relative density : no data available

Solubility : not measured

Water solubility : insoluble

Partition coefficient  
(n-octanol/water) : not measured

Autoignition  
temperature : not measured

Thermal  
decomposition :

Viscosity, kinematic : no data available

Viscosity, dynamic : not determined

Explosive properties : not measured

Oxidizing properties : not measured

## 9.2. Other information

Density : ca. 0.81 g/cm<sup>3</sup>

Metal corrosion : not measured

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## 10. Stability and reactivity

### 10.1. Reactivity

See section "Possibility of hazardous reactions"

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## 10.2. Chemical stability

The product is stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No

## 10.4. Conditions to avoid

Avoid contact with strong oxidizing agents or strong acids.

## 10.5. Incompatible materials

Unknown

## 10.6. Hazardous decomposition products

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## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : no data available

Acute toxicity (inhalation) : no data available

Acute toxicity (dermal) : no data available

Irritation/corrosion of the skin : This material may cause burns to the skin.

Serious eye damage/eye irritation : Result: This material may cause burns to the eyes.

Respiratory/skin sensitization : no data available

Repeated dose toxicity : no data available

### CMR assessment

Carcinogenicity : no data available

Mutagenicity : no data available

Teratogenicity : no data available

Toxicity to reproduction : no data available

Carcinogenicity : Not listed by NTP, IARC, ACGIH, or OSHA as a carcinogen.

Specific Target Organ Toxicity - Single exposure : no data available

Specific Target Organ Toxicity - Repeated exposure : no data available

Aspiration hazard : No Aspiration toxicity classification

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## 12. Ecological information

### Ecotoxicology Assessment

Acute aquatic toxicity : no data available

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Chronic aquatic toxicity : no data available

## 12.1. Toxicity

Aquatic toxicity, fish : no data available

Aquatic toxicity, invertebrates : no data available

Aquatic toxicity, algae / aquatic plants : no data available

Toxicity in microorganisms : no data available

Chronic toxicity in fish : no data available

Chronic toxicity in aquatic Invertebrates : no data available

Toxicity in organisms which live in the soil : no data available

Toxicity in terrestrial plants : no data available

Toxicity to Above-Ground Organisms : no data available

## 12.2. Persistence and degradability

Photodegradation : no data available

Biological degradability : no data available

Physico-chemical removability : no data available

Biochemical Oxygen Demand (BOD) : no data available

Chemical Oxygen Demand (COD) : no data available

Relation of BOD/COD : no data available

Dissolved organic carbon (DOC) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Distribution among environmental compartments : no data available

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## 12.3. Bioaccumulative potential

Bioaccumulation : no data available

## 12.4. Mobility in soil

Environmental distribution : no data available

## 12.5. Results of PBT and vP vB assessment

PBT and vP vB assessment : no data available

## 12.6. Other adverse effects

General Information : No data available.

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## 13. Disposal considerations

### 13.1. Waste treatment methods

Product : Incinerate in an authorized and permitted thermal treatment facility or chemical or biological treatment in authorized and permitted facilities is recommended.

Contaminated packaging :

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## 14. Transport information

### D.O.T. Road/Rail

- 14.1 UN number: UN 2735  
14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty Diamine)  
14.3 Transport hazard class (es): 8  
14.4 Packing group: III  
14.5 Environmental hazards (Marine pollutant): Yes  
14.6 Special precautions for user: No

### Air transport ICAO-TI/IATA- DGR

- 14.1. UN number: UN 2735  
14.2. UN proper shipping name: Amines, liquid, corrosive, n.o.s. (Fatty Diamine)  
14.3. Transport hazard class (es): 8  
14.4. Packing group: III  
14.5. Environmental hazards: Yes  
14.6. Special precautions for user: No

### Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 2735  
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE , N.O.S. (Fatty Diamine)  
14.3. Transport hazard class (es): 8  
14.4. Packing group: III  
14.5. Environmental hazards (Marine pollutant): Yes  
14.6. Special precautions for user: Yes  
Em S: F-A,S-B



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Stowage category A - "Separated from " acids - Seg.Grp.: Alkalis

- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:  
For transport approval see regulatory information

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## 15. Regulatory information

### Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

Canada : WHMIS CLASSIFICATION  
Class E - Corrosive  
All intentional ingredients are listed on the DSL (Domestic Substance List) or have been notified pursuant to the NSN regulations.

### US regulations:

SARA Title III Section 311/312 Hazard Categories : Acute Health Hazard

Other regulations : CTFA: complies

State Right to Know : No components subject to "Right-To-Know" legislation in the following States: NJ, PA, MA and RI.

SARA EHS: NO

California Proposition 65 Statement : Notification: No  
This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects .

HMIS Ratings Health: 3  
Flammability: 1  
Reactivity: 0  
Personal Protection: X

### **Notification status**

USA (TSCA) : listed/registered or exempted  
Canada (DSL) : listed/registered or exempted

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## 16. Other information

### **List of references**

Date prepared : 05/15/2015

Further information : Product classified under the US GHS format.

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## Legend

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ADNR</b>	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>Chem G</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DM EL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVS EB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GM O</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organization for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization