

**Safety data sheet as per Commission Regulation (EU) 2015/830**  
**Product: Oleyl amine**



◆ **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name	<b>Oleyl amine</b>
Chemical Name	(Z)-octadec-9-enylamine
CAS Number	112-90-3
EC Number	204-015-5

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses	Surfactant
Uses identified against	Not for use other than those specified

**1.3 Details of the supplier of the safety data sheet:**

Manufacturer	Prasol Chemicals Pvt. Ltd., Prasol House, Plot No.A-17/2/3, T.T.C. Indl. Area, Khairne M.I.D.C., Navi Mumbai - 400 710. Maharashtra, India.
Telephone	+91-22-27782555
Telefax	+91-22-27782430
e-mail address	sales@prasolchem.com; inquiry@prasolchem.com

**1.4 Emergency telephone number**

Telephone	+91-22- 27782555
Language	English

◆ **SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

Acute Toxicity	Category 4	H302	Harmful if swallowed
Aspiration Hazard	Category 1	H304	May be fatal if swallowed and enters airways
Skin Corrosion	Category 1B	H314	Causes severe skin burns and eye damage
Eye Damage	Category 1	H318	Causes serious eye damage
Specific Target Organ Toxicity, Single Exposure	Category 3	H335	May cause respiratory irritation
Specific Target Organ Toxicity, Repeated Exposure	Category 2	H373	May cause damage to organs through prolonged or repeated exposure (gastro-intestinal tract, liver, immune system)
Aquatic acute toxicity	Category 1	H400	Very toxic to aquatic life
Aquatic chronic toxicity	Category 1	H410	Very toxic to aquatic life with long lasting effects

**Information concerning particular hazards for human and environment:** No further information

**2.2 Label elements**

**Labeling according to Regulation (EC) No 1272/2008 (CLP)**

**Hazard pictograms**



GHS05

GHS07

GHS08

GHS09

**Signal word**

Danger

**Hazard statements**

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure (gastro-intestinal tract, liver, immune system)
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

**Precautionary statements**

<b>General</b>	P103	Read label before use.
<b>Prevention</b>	P260	Do not breathe vapour, mist or spray.
	P264	Wash hands thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.

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	P271	Use only outdoors or in a well-ventilated area.
	P273	Avoid release to the environment.
	P280	Use protective gloves and eye protection.
<b>Response</b>	P301+P310	IF SWALLOWED: Immediately call a doctor
	P301 + P312	IF SWALLOWED: Call a doctor if you feel unwell.
	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	P304 +P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P310	Immediately call a doctor.
	P312+P314	Call a doctor if you feel unwell.
	P321	Specific treatment- wash with plenty of water and mild soap.
	P330	Rinse mouth.
	P331	Do NOT induce vomiting.
	P337+P313	If eye irritation persists: Get medical advice.
	P363	Wash contaminated clothing before reuse.
	P391	Collect spillage.
<b>Storage</b>	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.
<b>Disposal</b>	P501	Dispose of contents/container to in accordance with national regulations.

**2.3 Other hazards**

Not a PBT, vPVB substance according to the criteria of REACH regulation

◆ **SECTION 3: Composition/information on ingredients**

**3.1 Substances**

	<b>Ingredient</b>	<b>CAS No.</b>	<b>EC No.</b>	<b>Concentration (%)</b>
	Oleyl amine	112-90-3	204-015-5	98 min
<b>Additional information:</b>				
	Molecular Formula	C <sub>18</sub> H <sub>37</sub> N		
	Molecular Weight	267.49		

◆ **SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>General information</b>	Take off all contaminated clothing immediately.
<b>After inhalation</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention
<b>After skin contact</b>	Wash off with plenty of water immediately, seek medical advice if necessary.
<b>After eye contact</b>	Rinse with plenty of water immediately and seek medical advice.
<b>After swallowing</b>	Do not induce vomiting and seek medical advice immediately.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	Causes eye, skin, and respiratory tract irritation Central nervous system depression, Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Blood disorders, Dermatitis, Blurred vision..
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically

◆ **SECTION 5: Firefighting measures**

<b>5.1 Extinguishing media</b>	
<b>Suitable extinguishing media</b>	CO <sub>2</sub> , dry powder, foam or water spray
<b>Unsuitable extinguishing media</b>	water jet
<b>5.2 Special hazards arising from the substance or mixture</b>	Heating or fire can release toxic gas (Nitrogen oxides (NOx), Carbon monoxide)
<b>5.3 Advice for firefighters</b>	Do not expose to high temperature. Danger of bursting and explosion.



Use fine water spray to cool endangered containers.  
 Move undamaged containers from immediate hazard area.  
 Do not allow fire water to penetrate into surface or ground water.

◆ **SECTION 6: Accidental release measures**

- |  |  |
|--|--|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | Remove persons not involved upwind.<br>Wear a self-contained breathing apparatus and chemical protective clothing. Solvent-resistant protective clothing recommended.  |
| <b>6.2 Environmental precautions</b>   | Plug leak if safely possible.<br>Do not allow to enter drains, surface waters, basements or pits.  |
| <b>6.3 Methods and material for containment and cleaning up</b>                | In case of spills of large quantities: Dam spills and pump to remove. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal. |
| <b>6.4 Reference to other sections</b>   | Section 8 for information on personal protection equipment.<br>Section 13 for disposal information   |

◆ **SECTION 7: Handling and storage**

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|---|---|
| <b>7.1 Precautions for safe handling</b>                                | Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Concentrated vapours are heavier than air. Avoid the formation of aerosol. Do not breathe vapours. Use only explosion-protected equipment/instruments. |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> | Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Beware of re-ignition.  |
| <b>Advice on protection against fire and explosion</b>                  | Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight.   |
| <b>Storage</b>  | Observe prohibition against storing together!   |
| <b>Advice on common storage</b>   | -   |
| <b>Storage class</b>  | -   |
| <b>Storage stability</b>  | Stable under recommended storage conditions   |
| <b>7.3 Specific end use(s)</b>  | As given in Section 1   |

◆ **SECTION 8: Exposure controls/personal protection**

- |   |   |
|---|---|
| <b>8.1 Control parameters</b>           | 8h TWA 1 mg/m <sup>3</sup>  |
| <b>8.2 Exposure controls</b>            |   |
| <b>Appropriate engineering controls</b> | Provide good ventilation and/or an exhaust system in the work area.   |
| <b>Personal protective equipment</b>    |   |
| <b>Eye/ face protection</b>             | closed goggles, face shield   |
| <b>Skin protection</b>                  |   |
| <b>Hand protection</b>                  | Butyl-rubber 0.5 mm > 480 min   |
| <b>Body protection</b>                  | Use solvent-resistant protective clothing.<br>Flame-retardant antistatic protective clothing; safety shoes  |
| <b>Respiratory protection</b>           | Respiratory equipment with suitable filter or a self-contained respiratory apparatus.   |
| <b>Thermal hazards</b>                  | Do not expose to extreme heat   |
| <b>Industrial hygiene</b>               | Do not inhale vapours / aerosols. Avoid contact with skin and eyes. Remove immediately all contaminated clothing. Use disposable clothing if appropriate.<br>Smoking, eating and drinking should be prohibited in the application area. |

◆ **SECTION 9: Physical and chemical properties**

- |  |                                  |
|--|----------------------------------|
| <b>9.1 Information on basic physical and chemical properties</b> |                                  |
| <b>Appearance</b>  | Colourless to pale yellow liquid |
| <b>Odour</b>   | amine like                       |
| <b>Odour threshold</b>   | no data available                |
| <b>pH</b>  | no data available                |
| <b>Melting point</b>   | 18-26°C                          |
| <b>Boiling point</b>   | 348-350°C                        |
| <b>Flash point</b>   | 154°C (Closed cup)               |



Evaporation rate	no data available
Flammability (solid, gas)	not applicable
Flammability limits	not applicable
Vapour pressure	0.005 hPa at 20°C
Vapour density	9.22 (air =1)
Relative density	0.813at 25°C
Solubility in water	insoluble at 20°C
Partition coefficient	7.5calculated (n-octanol/water) at 25°C
Ignition temperature	255°C
Decomposition temperature	no data available
Viscosity at 20 °C	not determined
Explosive properties	no explosive properties (structural reasons)
Oxidizing properties	no oxidizing properties (structural reasons)
<b>9.2 Other information</b>	
Heat of combustion	-
Heat of vaporization	-

### SECTION 10: Stability and reactivity

- ◆ **10.1 Reactivity** No dangerous reactions if stored and handled as indicated.  
Not corrosive to steel.  
Forms no flammable gases in contact with water.  
Hygroscopic. Non-oxidizing.
- 10.2 Chemical stability** Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.
- 10.3 Possibility of hazardous reactions** No known hazardous reactions if used as directed
- 10.4 Conditions to avoid** Heat, flames and sparks. avoid static electricity discharge
- 10.5 Incompatible materials** Strong acids and oxidizing agents, Strong bases
- 10.6 Hazardous decomposition products** Thermal decomposition products- Nitrogen oxides (NOx), Carbon monoxide

### SECTION 11: Toxicological information

- ◆ **11.1 Information on toxicological effects**
  - Acute toxicity**
    - LD50 oral rat >2000mg/kg bw
    - LD50 intra-peritoneal mouse 888mg/kg bw
  - Skin irritation** corrosive1B (rat)
  - Serious eye irritation** Severe eye irritation 24 h (rabbit)
  - Respiratory or skin sensitization** No sensitizing effects known
  - Germ cell mutagenicity** non mutagenic (Ames test)
  - Carcinogenicity** no indications for a carcinogenic potential
  - Reproductive toxicity** no adverse effect on reproduction (rat)
  - STOT-single exposure** irritating to eye and skin
  - STOT-repeated exposure** no data available
  - Aspiration hazard** no data available

### SECTION 12: Ecological information

- ◆ **12.1 Toxicity**
  - Aquatic toxicity**
    - Toxicity to fish LC50 96h 0.11mg/L *Pimephales promelas*
    - Toxicity to aquatic invertebrates EC50 48h 0.011mg/L *Daphnia magna*
    - Toxicity to aquatic algae and cyanobacteria ERC50 72h 0.46mg/L *Desmodesmus subspicatus*
    - Toxicity to microorganisms EC50 - 222.5mg activated sludge
  - 12.2 Persistence and degradability**
    - Biodegradation** readily biodegradable (52% in 10days)
  - 12.3 Bioaccumulative potential** estimated Bioconcentration factor >100; potential for bioaccumulation
  - 12.4 Mobility in soil** log Pow ~7
  - 12.5 Results of PBT and vPvB assessment** Not a PBT, vPvB substance according to the REACH regulation

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12.6 Other adverse effects

No further information available

### SECTION 13: Disposal considerations

- 13.1 Waste treatment methods** Observe all federal, state, and local environmental regulations.  
Contact a licensed professional waste disposal service to dispose of this material.  
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
Do not dispose in sewage.

### ◆ SECTION 14: Transport information

	ADR/RID	IMDG	ICAO/IATA
<b>14.1 UN Number</b>	2735	2735	2735
<b>14.2 UN proper shipping name</b>	Amines, liquid, corrosive, n.o.s. (Z)-Octadec-9-enylamine		
<b>14.3 Transport hazard class</b>	8	8	8
<b>14.4 Packaging group</b>	III	III	III
<b>14.5 Environmental hazards</b>	marine pollutant		
<b>14.6 Special precautions for the user</b>	corrosive and irritant; Danger		
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	See regulatory information for transport approval		

### ◆ SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- |  |                   |   |
|--|-------------------|---|
| <b>Major accident hazard</b>                   | <b>Seveso III</b> | E1 (Hazardous to the aquatic environment) |
| <b>International Chemical Inventory Status</b> |                   |   |
| <b>USA (TSCA)</b>                              | listed            |   |
| <b>Canada (DSL)</b>                            | listed            |   |
| <b>Australia (AICS)</b>                        | listed            |   |
| <b>Japan (MITI)</b>                            | listed            |   |
| <b>Korea (KECL)</b>                            | listed            |   |
| <b>Philippines (PICCS)</b>                     | listed            |   |
| <b>China</b>                                   | listed            |   |
| <b>New Zealand</b>                             | listed            |   |
| <b>Taiwan</b>                                  | listed            |   |
- 15.2 Chemical safety assessment** A Chemical Safety Assessment will be carried out at the time of REACH registration

### ◆ SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Further information:

Sections in which changes have been made since the last version are marked with a diamond ◆ in the left hand margin.

#### Abbreviations and acronyms in English language:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List
KOC	Soil adsorption coefficient
KOW	Partition Coefficient octanol-water
LC50	Lethal concentration, 50 percent

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LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
MITI	Ministry of International Trade and Industry
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative

### Sources

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ECHA <https://echa.europa.eu/documents/10162/37e053f4-f5dc-4cf6-8c07-ff386fc0bec1>

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