

# Safety data sheet as per Commission Regulation (EU) 2015/830

## Product: Lauryl amine



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

#### 1.1 Product identifier

Trade name      Lauryl amine  
Chemical Name    Dodecyl amine

#### 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 Limited (Formerly known as Prasol Chemicals Private Limited)  
Prasol House, Plot No.A-17/2/3,  
T.T.C. Industrial Area, Khairne M.I.D.C.,  
Navi Mumbai - 400 710.  
Maharashtra, India.  
Telephone          +91-22-27782555/ 61952500  
Telefax             +91-22-61952577  
e-mail address      sales@prasolchem.com; inquiry@prasolchem.com

#### 1.4 Emergency telephone number

Telephone          +91-22- 27782555/ 61952500  
Language            English

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

|                                                     |             |      |                                                                                                                   |
|-----------------------------------------------------|-------------|------|-------------------------------------------------------------------------------------------------------------------|
| Aspiration Toxicity                                 | Category 1  | H304 | May be fatal if swallowed and enters airways.                                                                     |
| Skin Corrosion                                      | Category 1B | H314 | Causes severe skin burns and eye damage                                                                           |
| Specific Target Organ Toxicity<br>Single Exposure   | Category 3  | H335 | May cause respiratory irritation                                                                                  |
| Specific Target Organ Toxicity<br>Repeated Exposure | Category 2  | H373 | May cause damage to organs through prolonged or repeated exposure (Gastro-intestinal tract, liver, immune system) |
| 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

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

##### Precautionary statements

##### General

P103      Read label before use.

##### Prevention

P260      Do not breathe vapour, mist or spray.  
P264      Wash hands thoroughly after handling.  
P271      Use only outdoors or in a well-ventilated area.  
P273      Avoid release to the environment.  
P280      Use protective gloves and eye protection.

##### Response

P301 + P316      IF SWALLOWED: Call emergency medical help immediately.  
P301+P330+P331      IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P302+P361+P354      IF ON SKIN (or hair): Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.  
P304 + P340      IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305+P354+P338      IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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|                 |      |                                                                           |
|-----------------|------|---------------------------------------------------------------------------|
|                 | P316 | Get emergency medical help immediately.                                   |
|                 | P321 | Specific treatment- wash with plenty of water and mild soap.              |
|                 | P331 | Do NOT induce vomiting.                                                   |
|                 | P363 | Wash contaminated clothing before reuse.                                  |
|                 | P391 | Collect spillage.                                                         |
| <b>Storage</b>  | 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

|                   |                                   |
|-------------------|-----------------------------------|
| Name              | Lauryl amine                      |
| Chemical Name     | Dodecan-1-amine/ Dodecylamine     |
| CAS No.           | 124-22-1                          |
| EC No.            | 204-690-6                         |
| Molecular Formula | C <sub>12</sub> H <sub>27</sub> N |
| Molecular Weight  | 185.35                            |

| Ingredient                    | Classification                                                                                 | Concentration (%) |
|-------------------------------|------------------------------------------------------------------------------------------------|-------------------|
| Lauryl amine/<br>Dodecylamine | Asp Tox. 1, Skin Corr. 1B, STOT SE 3, STOT<br>RE 2, Aq. Chr. 1<br>H304, H314, H335, H373, H410 | 99 min            |

### 3.2 Mixtures not applicable

There are no other ingredients present, which are classified as hazardous and hence require reporting in this section.

## 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<br>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 (NO <sub>x</sub> ), 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. Wear self-contained breathing apparatus for firefighting if necessary. |

## 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.                                                                     |

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- 6.3 Methods and material for containment and cleaning up** 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.
- 6.4 Reference to other sections** Section 8 for information on personal protection equipment.  
Section 13 for disposal information

### SECTION 7: Handling and storage

- 7.1 Precautions for safe handling** 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.
- 7.2 Conditions for safe storage, including any incompatibilities**
- Advice on protection against fire and explosion** Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Beware of re-ignition.
- Storage** Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight.
- Packaging material** Steel drums
- Incompatibility** Not determined
- Advice on common storage** Observe prohibition against storing together!
- Storage class** -
- Storage stability** Stable under recommended storage conditions
- 7.3 Specific end use(s)** Surfactant

### SECTION 8: Exposure controls/personal protection

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

### SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**
- Appearance** White to off-white solid
- Odour** amine like
- Odour threshold** no data available
- pH** 12.4 for 5% solution at 20°C
- Melting point** 26°C
- Boiling range** 256.6°C
- Flash point** 105°C (Closed cup)
- Evaporation rate** no data available
- Flammability (solid, gas)** non-flammable
- Flammability limits** not applicable
- Vapour pressure** 0.21hPa at 20 °C
- Vapour density** not determined
- Relative density at 23°C** 0.94at 20°C
- Solubility in water** 0.038g/l at 25°C
- Partition coefficient** log Kow = 3.37
- Ignition temperature** 255°C

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|                           |                                              |
|---------------------------|----------------------------------------------|
| Decomposition temperature | no data available                            |
| Viscosity at 20 °C        | 3.43 mPa s                                   |
| Explosive properties      | no explosive properties (structural reasons) |
| Oxidizing properties      | no oxidizing properties (structural reasons) |
| 9.2 Other information     | no further information                       |

### 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. |
| 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             | Copper and copper alloys. Strong oxidizing agents. Strong acids                                                                    |
| 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 Dermal rat                           | >2000mg/kg bw                                                                                                                                   |
| Skin irritation                           | corrosive (rat) <b>Category 1B, H314</b>                                                                                                        |
| Serious eye irritation                    | irritating (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                     | NOAEL 50mg/ kg bw/day                                                                                                                           |
| STOT-single exposure                      | Causes respiratory irritation <b>Category 3H335</b>                                                                                             |
| STOT-repeated exposure                    | Oral - May cause damage to organs through prolonged or repeated exposure. - Gastrointestinal tract, Liver, Immune system <b>Category 2 H373</b> |
| Aspiration hazard                         | Fatal if inhaled <b>Category 1 H304</b>                                                                                                         |

### SECTION 12: Ecological information

|                                             |                                                                            |
|---------------------------------------------|----------------------------------------------------------------------------|
| 12.1 Toxicity                               |                                                                            |
| Aquatic toxicity                            | <b>Category 1, H410</b>                                                    |
| Toxicity to fish                            | LC50 96h 0.54mg/L <i>Danio rerio</i>                                       |
| Toxicity to aquatic invertebrates           | EC50 48h 0.15mg/L <i>Daphnia magna</i>                                     |
| Toxicity to aquatic algae and cyanobacteria | EC50 72h 0.05mg/L <i>Pseudokirchneriella subcapitata</i>                   |
| Toxicity to microorganisms                  | EC50 3h 80mg activated sludge                                              |
| 12.2 Persistence and degradability          |                                                                            |
| Biodegradation                              | readily biodegradable (67% in 28days)                                      |
| 12.3 Bioaccumulative potential              | estimated Bioconcentration factor >100; high potential for bioaccumulation |
| 12.4 Mobility in soil                       | log Koc 3.805 (soil)                                                       |
| 12.5 Results of PBT and vPvB assessment     | Not a PBT, vPvB substance according to the REACH regulation                |
| 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

|                |                 |              |                   |
|----------------|-----------------|--------------|-------------------|
| 14.1 UN Number | ADR/RID<br>3259 | IMDG<br>3259 | ICAO/IATA<br>3259 |
|----------------|-----------------|--------------|-------------------|

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|      |                                                                         |                                                   |    |    |
|------|-------------------------------------------------------------------------|---------------------------------------------------|----|----|
| 14.2 | UN proper shipping name                                                 | Amines, solid, corrosive, n.o.s (Dodecyl amine)   |    |    |
| 14.3 | Transport hazard class                                                  | 8                                                 | 8  | 8  |
| 14.4 | Packaging group                                                         | II                                                | II | II |
| 14.5 | Environmental hazards                                                   | marine pollutant                                  |    |    |
| 14.6 | Special precautions for the user                                        | corrosive and irritant; Danger                    |    |    |
|      | EmS Number                                                              | F-A,S-B                                           |    |    |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | See regulatory information for transport approval |    |    |

## SECTION 15: Regulatory information

|      |                                                                                                |                                                                                    |                                           |
|------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------|
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture |                                                                                    |                                           |
|      | Major accident hazard                                                                          | Seveso III                                                                         | E1 (Hazardous to the aquatic environment) |
|      | International Chemical Inventory Status                                                        |                                                                                    |                                           |
|      | USA (TSCA)                                                                                     | Listed (Tracking No. 33480)                                                        |                                           |
|      | Canada (DSL)                                                                                   | listed                                                                             |                                           |
|      | Australia (AICS)                                                                               | listed                                                                             |                                           |
|      | Japan (MITI)                                                                                   | Listed (MITI No. 2-133)                                                            |                                           |
|      | Korea (KECL)                                                                                   | Listed (KE-12825)                                                                  |                                           |
|      | Philippines (PICCS)                                                                            | listed                                                                             |                                           |
|      | China                                                                                          | listed                                                                             |                                           |
|      | New Zealand                                                                                    | listed                                                                             |                                           |
|      | Taiwan                                                                                         | 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:

|        |                                                                                     |
|--------|-------------------------------------------------------------------------------------|
| 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                                                    |
| 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

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Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)  
ECHA <https://echa.europa.eu/registration-dossier/-/registered-dossier/15915>

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