1 Identification of the substance/mixture and of the company/undertaking

Product details
Trade name: Stearyl amine
CAS No.: 124-30-1
EC No.: 204-695-3

Application of the substance / the preparation
- Used as cationic and amphoteric surfactants
- Used as corrosion inhibitors and asphalt emulsifier

Manufacturer/Supplier:
Prasol Chemicals 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.
Tel: +91-22-27782555
Fax: +91-22-27782430

Further information obtainable from:
Mr. Dhaval Parikh
e-mail: sales@prasolchem.com; inquiry@prasolchem.com

Information in case of emergency:
Contact details of European importer:
Emergency telephone number:
Telephone number of EU importer:
Opening hours:
Other Comments (e.g. language(s) of the phone service): English

2 Hazards identification

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

GHS09 Environment

GHS05 Corrosion

GHS08 Health Hazard

Acut. Tox. 4 H302 Harmful if swallowed
Skin Corr. 1C H314 Causes skin burns and eye damage
Eye Dam. 1 H318 Causes serious eye damage
STOT RE 2 H373 May cause damage to organs

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful
R37/38 Irritating to respiratory system and skin

Information concerning particular hazards for human and environment: Not applicable

Label elements
Labeling according to Regulation (EC) No 1272/2008

Revision: 14-01
Issue Date: 19.06.2014
Hazard pictograms

GHS09  GHS05  GHS08

Signal word Danger
Hazard-determining components of labeling: Void

Hazard statements
H302 Harmful if swallowed
H314 Causes skin burns and eye damage
H318 Causes serious eye damage
H373 May cause damage to organs

Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332+P313 If skin irritation occurs get medical advice/attention
P337+P313 If eye irritation persists, get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse

Labeling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Xn: Harmful

Risk phrases:
R37/38 Irritating to respiratory system and skin.

Safety phrases:
2 Keep out of the reach of children

3 Composition/information on ingredients

Chemical characterization:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octadecan-1-amine</td>
<td>124-30-1</td>
<td></td>
</tr>
</tbody>
</table>

Identification number(s)

- EINECS Number: 204-695-3
- Index number: 612-282-00-8

Additional information:

- Molecular Formula: C18H39N
- Molecular Weight: 269.52

4 First aid measures

General information:
Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.

After eye contact:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

After swallowing:
If symptoms persist consult doctor.
**Information for doctor:** Treat symptomatically and supportively.

**The following symptoms may occur:**
Irritant effects, cough, shortness of breath, dizziness, unconsciousness, headache, convulsions.

### 5 Firefighting measures

**Suitable extinguishing agents:** foam, carbon dioxide, dry powder

**Extinguishing media that must not be used for safety reasons:** strong water jet

**Special hazards caused by the substance, its products of combustion or resulting gases:**
Combustible material, vapors are heavier than air and may spread along floors.

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO), Nitrous gases (NOx)

Development of hazardous combustion gases or vapors possible in the event of fire.

**Protective equipment:** Wear self-contained breathing apparatus.

### 6 Accidental release measures

**Person-related safety precautions:**
Wear protective clothing. Avoid contact with the skin, eyes and clothing.

**Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.

**Measures for cleaning/collection:**
Cover drains. Collect, bind, and pump off spills. Take up with binding agent (eg sand, sawdust). Dispose of properly. Clean up affected area. Rinse away rest with plenty of water or dilute acetic acid. Do not use chemical binders containing acids.

### 7 Handling and storage

**Handling:**
Avoid contact with skin and eyes. Normal measures for preventive fire protection.

**Information about fire - and explosion protection:** Keep ignition sources away. Do not smoke.

**Storage:**
Requirements to be met by storerooms and receptacles:
Store in a cool, dry, well-ventilated area.
Store away from acids and strong oxidizing agents

**Information about storage in one common storage facility:** Store away from incompatible materials.

**Further information about storage conditions:** Keep container tightly sealed.

**Specific applications**
- Used as cationic and amphoteric surfactants
- Used as corrosion inhibitors and asphalt emulsifier

### 8 Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:** Not required.

**General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

**Respiratory protection:**
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Protection of hands:**
Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

Eye protection:

Tightly sealed goggles

Face shield

Body protection: Apron, boots.

9 Physical and chemical properties

General Information

Appearance:
Form: solid
Color: white to off-white
Odor: amine-like

Change in condition
Melting point/Melting range: 47-53°C
Boiling point/Boiling range: 349°C
Specific gravity: 0.8618
Flash point: >109°C
Ignition temperature: not available

Solubility in / Miscibility with water: soluble

Additional information
Solubility: Soluble in alcohol, ether, Soluble in a variety of organic solvents

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: Avoid strong heating.

Materials to be avoided:
Avoid contact with strong acids.
Incompatible with oxidizing materials.
Avoid contact with reducing agents.

Dangerous reactions: violent reactions possible with mineral acids, strong oxidizing agent.

Dangerous decomposition products: May emit toxic and irritant fumes in fire conditions.

11 Toxicological information

Acute toxicity:

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
</tr>
</tbody>
</table>

Primary irritant effect:

on the skin: Causes skin irritation
on the eye: Causes serious eye irritation.
Sensitization: May cause sensitization through skin contact.

Acute effects (acute toxicity, irritation and corrosivity)

Not available
12 Ecological information

Information about elimination (persistence and degradability):
Not available

Behavior in environmental systems:
Mobility and bioaccumulation potential:
Not available
Ectoxical effects: Not available

Additional ecological information:
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment: Not available

13 Disposal considerations

Product: Recommendation
Observe all federal, state, and local environmental regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID (cross-border)
ADR/RID class: 9 (Miscellaneous dangerous substances and articles)
UN-Number: 3077
Packaging group: III
Hazard label: 9
Description of goods: 3077 OCTADECYLAMINE

Maritime transport IMDG:
IMDG Class: 9
UN Number: 3077
Label 9
Packaging group: III
EMS Number: F-A-S-F
Marine pollutant: Yes
Proper shipping name: OCTADECYLAMINE

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: 9
UN/ID Number: 3077
Label 9
Packaging group: III
Proper shipping name: OCTADECYLAMINE
UN "Model Regulation": UN3077, OCTADECYLAMINE, 9, III

15 Regulatory information

Labeling according to Regulation (EC) No 1272/2008
Hazard pictograms Please refer section 2
Signal word Danger
Hazard statements Please refer section 2
Precautionary statements Please refer section 2

Labeling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials
Code letter and hazard designation of product: please refer Section 2
Risk phrases: please refer Section 2.
PRASOL CHEMICALS LIMITED
Material Safety Data Sheet
Product: Stearyl amine

Chemical safety assessment
A Chemical Safety Assessment has not been carried out.

National regulations:

Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57
The substance is not listed as SVHC.

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.

Department issuing MSDS:
Product safety department.
Contact:
Tel: +91-022-27782555
Fax: +91-022-27782430

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Sources
Chemspider: http://www.chemspider.com/Chemical-Structure.15016.html

Data compared to the previous version altered.
• Section 1: Identification of the substance/mixture and of the company/undertaking
• Section 2: Hazard Identification
• Section 3: Composition/Information on ingredients
• Section 4: First-aid measures.
• Section 5: Fire-fighting measures.
• Section 6: Accidental Release measures
• Section 7: Handling and storage.
• Section 8: Exposure Controls/Personal protection.
• Section 9: Physical and Chemical properties.
• Section 10: Stability and Reactivity.
• Section 11: Toxicological Information.
• Section 12: Ecological Information.
• Section 13: Disposal consideration
• Section 14: Transport information
• Section 15: Regulatory information