

**Safety data sheet as per COMMISSION REGULATION (EU) No 453/2010  
of 20 May 2010 amending Regulation (EC) No 1907/2006  
Product: Tallow diamine**



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

**1.1 Product identifier**

**Trade name: Tallow diamine**

**CAS No.: 61791-55-7**

**EC No.: 263-189-0**

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

**Relevant identified uses:** Surfactant

**Uses identified against:** no information available

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

**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:**

Product safety department Tel: +91-22- 27782555; Fax:+91-22- 27782430

Other Comments (e.g. language(s) of the phone service): English

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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



GHS05

Corrosion

Acute Tox. 4, H302

Skin Corr 1A, H314

Eye Dam. 1H318

STOT SE 3, H335

STOT RE 2, H373



GHS07

Exclamation mark



GHS08

Health hazard

Harmful if swallowed

Causes severe skin burns and eye damage

Causes serious eye damage

May cause respiratory irritation

May cause damage to organs through prolonged or repeated exposure (gastro-intestinal tract, liver, immune system)

Aquatic Acute 1, H400 Very toxic to aquatic life



GHS09

environment

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



Xn; Irritant

C Corrosive

N Dangerous for the environment

R22 Harmful if swallowed

R35 Causes severe burns

R36/37: Irritating to eyes and respiratory system

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed

R50/53, Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Information concerning particular hazards for human and environment:** Not applicable

**2.2 Label elements**

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

**Hazard pictograms**

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GHS05

Corrosion



GHS07

Exclamation mark



GHS08

Health hazard



GHS09

environment

**Signal word** Danger

**Hazard-determining components of labeling:** Void

**Hazard statements**

H302 Harmful if swallowed

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

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention

**2.3 Other hazards**

**Results of PBT and vPvB assessment:** Not applicable

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

**Chemical characterization:**

**CAS No.** Description  
61791-55-7 Tallow diamine

**Identification number(s)**

**EC Number** : 263-189-0

**Additional information:**

**Molecular Formula:** C10H28N4

**Molecular Weight:** 204g/mol

**SECTION 4: First aid measures**

**4.1 General information:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**After inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**After skin contact:** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**After eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**After swallowing:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

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.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**Information for doctor:** Treat symptomatically and supportively.

**SECTION 5: Firefighting measures**

**5.1 Suitable extinguishing agents:**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, use water spray, fog or foam. Do not use water jet. Use very large quantities (flooding) of water applied as a

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mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**5.2 Special hazards arising from the substance or mixture**

**5.3 Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Additional information** Use water spray to cool unopened containers

## **SECTION 6: Accidental release measures**

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

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**6.2 Environmental precautions:** Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

### **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

### **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling:**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Take measures to prevent the buildup of electrostatic charge.

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

### **7.2 Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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

**Further information about storage conditions:** Store away from moisture. Store in cool and dry place.

**7.3 Specific end use(s)** No further relevant information available

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

### **8.1 Control parameters**

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

**Additional information:** The lists valid during the making were used as basis.

### **8.2 Exposure controls**

#### **Personal protective equipment:**

#### **General protective and hygienic measures:**

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.

#### **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

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observed.

**Eye protection:** Tightly sealed goggles

**Body protection:**

Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

<b>Appearance</b>	: Slightly yellow paste
<b>Odour</b>	: Amine like
<b>Odour threshold</b>	: not determined
<b>pH</b>	: 10-11 (5% w/w solution)
<b>Melting point/Melting range</b>	: 44-48°C
<b>Initial Boiling point/Boiling range</b>	: not determined
<b>Flash point</b>	: >180°C
<b>Evaporation rate</b>	: not determined
<b>Flammability</b>	: non-flammable
<b>Upper/lower flammability or explosive limits:</b>	not applicable
<b>Danger of explosion</b>	: Containers may explode in fire
<b>Vapour pressure at 20°C</b>	: not determined
<b>Vapour density</b>	: not determined
<b>Relative density at 60 °C</b>	: 0.82 g/cm <sup>3</sup>
<b>Solubility in / Miscibility with water</b>	: insoluble
<b>Partition coefficient (n-octanol/water) at 25°C:</b>	not determined
<b>Auto-ignition temperature</b>	: 215°C
<b>Decomposition temperature</b>	: not determined
<b>Viscosity</b>	: 100-300cP (65°C)
<b>Explosive properties</b>	: not explosive (structural reasons)
<b>Oxidising properties</b>	: not oxidizing (structural reasons)
<b>9.2 Other information</b>	: no further information

## SECTION 10: Stability and Reactivity

**10.1 Reactivity** No dangerous reactions known.

### 10.2 Chemical stability

Under storage at normal ambient temperatures (minus 40° C to + 40° C), the product is stable.

No hazardous reaction when handled and stored according to provisions.

**10.3 Possibility of hazardous reactions** No known hazardous reactions

**10.4 Conditions to avoid** Heat, flames and sparks.

**10.5 Incompatible materials:** Strong oxidizing agents, acids

**10.6 Hazardous decomposition products:** carbon oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity:**

LD50 oral >2000 mg/kg bw/ day rat

**Skin corrosion/irritation:** corrosive1B (rat)

**Serious eye damage/irritation:** Severe eye irritation 24 h (rabbit)

**Respiratory or skin sensitization:** no data

**Germ cell mutagenicity:** non mutagenic

**Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** OECD 421, rat, oral

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**STOT-single exposure:** Inhalation - May cause respiratory irritation. - Lungs

**STOT-repeated exposure:** LOAEL 12,5 mg/kg bw/day (oral)

**Aspiration hazard:** no data available

**Additional information:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

LC50	96h	0.88mg/l	(Brachydanio rerio)
NOEC	21d	0.013mg/L	(Daphnia magna) long term, reproduction
E <sub>p</sub> C50	96h	0.007 mg/L	(Scenedesmus subspicatus) algae

### 12.2 Persistence and degradability

**Biodegradation** no data available

**12.3 Bio accumulative potential.** No data available

**12.4 Mobility in soil** no further data

**12.5 Results of PBT and vPvB assessment** No further data

**12.6 Other adverse effects** No further relevant information available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product:

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

### Land Transport (ADR/RID)

### Marine Transport (IMDG)

### Air Transport (ICAO/ IATA)

**14.1 UN/ID Number:** 3259

**14.2 UN proper shipping name:** Amines, solid, corrosive, n.o.s.

**14.3 Transport hazard class:** 8

**14.4 Packaging group:** II

**14.5 Environmental hazards:** marine pollutant

**14.6 Special precautions for the user:**

**Danger code (Kemler)** : 8

**EMS Number** : F-A S-B

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** no data available

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006

**Hazard pictograms** Please refer section 2

**Signal word** Danger

**Labeling according to EU guidelines:**

**Code letter and hazard designation of product:** Please refer section 2

**Risk phrases:** Please refer section 2

**15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out and will be applicable at the time of REACH Registration.

**Substances of very high concern (SVHC) according to REACH, Article 57** The substance is not listed as SVHC.

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**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.*

**Department issuing MSDS:**

*Product safety department.*

**Contact:**

*Tel: +91-22- 27782555*

*Fax: +91-22- 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)*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*EbC50: Concentration at which 50% reduction in biomass is observed*

*EC: European Inventory of Existing Commercial Chemical Substances*

*EMS: Emergency Schedule*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*IATA: International Air Transport Association*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organization*

*IMDG: International Maritime Code for Dangerous Goods*

*LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent*

*NOEC: No Observed Effect Level*

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

**Sources**

*REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006*

*ECHA: <http://echa.europa.eu/substance-information/-/substanceinfo/100.057.427>*

**New SDS**