

# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS MSDS



LABORATORY REAGENTS  
& FINE CHEMICALS

CAS No: 7087-68-5 MSDS

## MATERIAL SAFETY DATA SHEET (MSDS)

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

#### 1.1. Product identifier

|              |   |
|--------------|---|
| Product form | : Substance                               |
| Trade name   | : N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS |
| CAS No       | : 7087-68-5                               |
| Product code | : 03355                                   |
| Formula      | : C <sub>8</sub> H <sub>19</sub> N        |
| Synonyms     | : Ethylene diisopropylamine               |

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Industrial. For professional use only

##### 1.2.2. Uses advised against

No additional information available

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

LOBA CHEMIE PVT.LTD.  
107 Wode House Road, Jehangir Villa, Colaba  
400005 Mumbai - INDIA  
T +91 22 6663 6663 - F +91 22 6663 6699  
[info@lobachemie.com](mailto:info@lobachemie.com) - [www.lobachemie.com](http://www.lobachemie.com)

#### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

|   |      |
|---|------|
| Flammable liquids,<br>Category 2  | H225 |
| Acute toxicity (oral),<br>Category 3                                    | H301 |
| Skin corrosion/irritation,<br>Category 1B                               | H314 |
| Hazardous to the aquatic<br>environment — Chronic<br>Hazard, Category 3 | H412 |

Full text of classification categories and H statements : see section 16

# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

## Safety Data Sheet

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

F; R11  
Xn; R22  
C; R34  
R52/53

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS05

GHS06

Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour  
H301 - Toxic if swallowed  
H314 - Causes severe skin burns and eye damage  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P273 - Avoid release to the environment  
P280 - Wear protective gloves, protective clothing, eye protection, face protection  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/...  
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 POISON CENTER/doctor/...

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS  
CAS No : 7087-68-5

Full text of R- and H-phrases: see section 16

### 3.2. Mixture

Not applicable

# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

## Safety Data Sheet

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries : Causes severe skin burns and eye damage.
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : Highly flammable liquid and vapour.
- Explosion hazard : May form flammable/explosive vapour-air mixture.

#### 5.3. Advice for firefighters

- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

## Safety Data Sheet

|                               |  |
|-------------------------------|--|
| Precautions for safe handling | : Avoid contact with skin and eyes. Use only non-sparking tools. Keep away from sources of ignition - No smoking. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.  |

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

|                        |   |
|------------------------|---|
| Technical measures     | : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment. Comply with applicable regulations. |
| Storage conditions     | : Keep in fireproof place. Keep container tightly closed.   |
| Incompatible materials | : Heat sources.   |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

|                          |                                     |
|--------------------------|-------------------------------------|
| Hand protection          | : Protective gloves                 |
| Eye protection           | : Chemical goggles or face shield   |
| Skin and body protection | : Wear suitable protective clothing |
| Respiratory protection   | : Wear respiratory protection       |

## SECTION 9: Physical and chemical properties

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

|  |                     |
|--|---------------------|
| Physical state                             | : Liquid            |
| Colour                                     | : Clear Colorless.  |
| Odour                                      | : ammonical odour.  |
| Odour threshold                            | : No data available |
| pH   | : 12.3              |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : -50 °C            |
| Freezing point                             | : No data available |
| Boiling point                              | : 127 °C            |
| Flash point                                | : 10.6 °C           |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |

# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

## Safety Data Sheet

|                                  |   |
|----------------------------------|---|
| Flammability (solid, gas)        | : Flammable<br>Highly flammable liquid and vapour |
| Vapour pressure                  | : 16 hPa at 20 °C                                 |
| Relative vapour density at 20 °C | : No data available                               |
| Relative density                 | : No data available                               |
| Density                          | : 0.742 g/cm <sup>3</sup>                         |
| Solubility                       | : No data available                               |
| Log Pow                          | : No data available                               |
| Viscosity, kinematic             | : No data available                               |
| Viscosity, dynamic               | : No data available                               |
| Explosive properties             | : No data available                               |
| Oxidising properties             | : No data available                               |
| Explosive limits                 | : 0.007 - 0.063 vol %                             |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Open flame. Heat. Sparks.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates : Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | : Oral: Toxic if swallowed.                            |
| Skin corrosion/irritation         | : Causes severe skin burns and eye damage.<br>pH: 12.3 |
| Serious eye damage/irritation     | : Serious eye damage, category 1, implicit<br>pH: 12.3 |
| Respiratory or skin sensitisation | : Not classified                                       |
| Germ cell mutagenicity            | : Not classified                                       |

# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

## Safety Data Sheet

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Harmful if swallowed.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

##### N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS (7078-68-5)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
|-------------------------------|---|

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

Additional information : Handle empty containers with care because residual vapours are flammable.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

## Safety Data Sheet

### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 2733 |
| UN-No. (IMDG) | : 2733 |
| UN-No.(IATA)  | : 2733 |
| UN-No.(ADN)   | : 2733 |
| UN-No. (RID)  | : 2733 |

### 14.2. UN proper shipping name

|                                       |   |
|---------------------------------------|---|
| Proper Shipping Name (ADR)            | : AMINES, FLAMMABLE, CORROSIVE, N.O.S. / POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.                           |
| Proper Shipping Name (IMDG)           | : AMINES, FLAMMABLE, CORROSIVE, N.O.S.  |
| Proper Shipping Name (IATA)           | : AMINES, FLAMMABLE, CORROSIVE, N.O.S.  |
| Proper Shipping Name (ADN)            | : AMINES, FLAMMABLE, CORROSIVE, N.O.S.  |
| Proper Shipping Name (RID)            | : AMINES, FLAMMABLE, CORROSIVE, N.O.S.  |
| Transport document description (ADR)  | : UN 2733 AMINES, FLAMMABLE, CORROSIVE, N.O.S. / POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S., 3 (8), II, (D/E) |
| Transport document description (IMDG) | : UN 2733 AMINES, FLAMMABLE, CORROSIVE, N.O.S., 3 (8), II   |
| Transport document description (IATA) | : UN 2733 AMINES, FLAMMABLE, CORROSIVE, N.O.S., 3 (8), II   |
| Transport document description (ADN)  | : UN 2733 AMINES, FLAMMABLE, CORROSIVE, N.O.S., 3 (8), II   |
| Transport document description (RID)  | : UN 2733 AMINES, FLAMMABLE, CORROSIVE, N.O.S., 3 (8), II   |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |         |
|----------------------------------|---------|
| Transport hazard class(es) (ADR) | : 3 (8) |
| Danger labels (ADR)              | : 3, 8  |



#### IMDG

|                                   |         |
|-----------------------------------|---------|
| Transport hazard class(es) (IMDG) | : 3 (8) |
| Danger labels (IMDG)              | : 3, 8  |



#### IATA

|                                   |         |
|-----------------------------------|---------|
| Transport hazard class(es) (IATA) | : 3 (8) |
| Hazard labels (IATA)              | : 3, 8  |



#### ADN

|                                  |         |
|----------------------------------|---------|
| Transport hazard class(es) (ADN) | : 3 (8) |
| Danger labels (ADN)              | : 3, 8  |

# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

## Safety Data Sheet



### RID

Transport hazard class(es) (RID) : 3 (8)

Danger labels (RID) : 3, 8



### 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : FC

Special provision (ADR) : 274, 544

Limited quantities (ADR) : 1L

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T11

Portable tank and bulk container special provisions (ADR) : TP1, TP27

Tank code (ADR) : L4BH

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 338

Orange plates :



Tunnel restriction code (ADR) : D/E

EAC code : •2WE

APP code : A(fl)

#### - Transport by sea

Special provision (IMDG) : 274



# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

## Safety Data Sheet

|                                 |             |
|---------------------------------|-------------|
| Limited quantities (IMDG)       | : 1 L       |
| Excepted quantities (IMDG)      | : E2        |
| Packing instructions (IMDG)     | : P001      |
| IBC packing instructions (IMDG) | : IBC02     |
| Tank instructions (IMDG)        | : T11       |
| Tank special provisions (IMDG)  | : TP1, TP27 |
| EmS-No. (Fire)                  | : F-E       |
| EmS-No. (Spillage)              | : S-C       |
| Stowage category (IMDG)         | : B         |
| Stowage and handling (IMDG)     | : SW2       |
| Segregation (IMDG)              | : SG35      |
| MFAG-No                         | : 132       |

### - Air transport

|  |        |
|--|--------|
| PCA Excepted quantities (IATA)               | : E2   |
| PCA Limited quantities (IATA)                | : Y340 |
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA)              | : 352  |
| PCA max net quantity (IATA)                  | : 1L   |
| CAO packing instructions (IATA)              | : 363  |
| CAO max net quantity (IATA)                  | : 5L   |
| Special provision (IATA)                     | : A3   |
| ERG code (IATA)                              | : 3C   |

### - Inland waterway transport

|                                   |                 |
|-----------------------------------|-----------------|
| Classification code (ADN)         | : FC            |
| Special provisions (ADN)          | : 274, 544      |
| Limited quantities (ADN)          | : 1 L           |
| Excepted quantities (ADN)         | : E2            |
| Carriage permitted (ADN)          | : T             |
| Equipment required (ADN)          | : PP, EP, EX, A |
| Ventilation (ADN)                 | : VE01          |
| Number of blue cones/lights (ADN) | : 1             |

### - Rail transport

|   |               |
|---|---------------|
| Classification code (RID)                                 | : FC          |
| Special provision (RID)                                   | : 274, 544    |
| Limited quantities (RID)                                  | : 1L          |
| Excepted quantities (RID)                                 | : E2          |
| Packing instructions (RID)                                | : P001, IBC02 |
| Mixed packing provisions (RID)                            | : MP19        |
| Portable tank and bulk container instructions (RID)       | : T11         |
| Portable tank and bulk container special provisions (RID) | : TP1, TP27   |
| Tank codes for RID tanks (RID)                            | : L4BH        |
| Transport category (RID)                                  | : 2           |
| Colis express (express parcels) (RID)                     | : CE7         |
| Hazard identification number (RID)                        | : 338         |

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

## Safety Data Sheet

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS is not on the REACH Candidate List

N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS is not on the REACH Annex XIV List

##### 15.1.2. National regulations

###### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

###### Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

|                     |  |
|---------------------|--|
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3  |
| Aquatic Chronic 3   | Hazardous to the aquatic environment — Chronic Hazard, Category 3                            |
| Flam. Liq. 2        | Flammable liquids, Category 2  |
| Skin Corr. 1B       | Skin corrosion/irritation, Category 1B   |
| H225                | Highly flammable liquid and vapour   |
| H301                | Toxic if swallowed   |
| H314                | Causes severe skin burns and eye damage  |
| H412                | Harmful to aquatic life with long lasting effects  |
| R11                 | Highly flammable   |
| R22                 | Harmful if swallowed   |
| R34                 | Causes burns   |
| R52/53              | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| C                   | Corrosive  |

# N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

## Safety Data Sheet

|    |                  |
|----|------------------|
| F  | Highly flammable |
| Xn | Harmful          |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*