

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)

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

##### 1.1. Product identifier

Trade name : N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)

Product code : SS0115700500

Identification of the product : N,N-diethylaniline  
 CAS No :91-66-7  
 EC No :202-088-8  
 Annex No :612-054-00-8

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

Use : Industrial. For professional use only.

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

Company identification : SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

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

##### Classification EC 67/548 or EC 1999/45

Classification : T; R23/24/25  
 R33  
 N; R51-53

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311  
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
 Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP : Aquatic Chronic 2) H411

##### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

**MATERIAL SAFETY DATA SHEET (MSDS)**
**N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)**
**2. Hazards identification -DSD (continued)**
**Symbol(s)**

**Symbol(s)**

 : T : Toxic  
 N : Dangerous for the environment

**R Phrase(s)**

 : R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.  
 R33 : Danger of cumulative effects.  
 R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S Phrase(s)**

 : S1/2 : Keep locked up and out of reach of children.  
 S28 : After contact with skin, wash immediately with  
 S37 : Wear suitable gloves.  
 S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).  
 S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Contains**

: N,N-diethylaniline

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**

**Signal words**

: Danger

**Hazard statements**

 : H301 : Toxic if swallowed.  
 H311 : Toxic in contact with skin.  
 H331 : Toxic if inhaled.  
 H411 : Toxic to aquatic life with long lasting effects.

**Precautionary statements**
**• General**

 : P102: Keep out of reach of children.  
 P103: Read label before use.  
 P101: If medical advice is needed, have product container or label at hand.

**• Prevention**

 : P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 P271: Use only outdoors or in a well-ventilated area.  
 P261: Avoid breathing dust, fume, gas, mist, vapours, spray.  
 P273: Avoid release to the environment.  
 P264: Wash thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.

**• Response**

 : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.  
 P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
 P391: Collect spillage.  
 P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
 P363: Wash contaminated clothing before reuse.  
 P361: Remove immediately all contaminated clothing.

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## MATERIAL SAFETY DATA SHEET (MSDS)

### N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)

#### 2. Hazards identification -DSD (continued)

- **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.  
P405: Store locked up.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Contains** : N,N-diethylaniline

#### 2.3. Other hazards

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 3. Composition/information on ingredients

**Substance / Preparation** : N,N-diethylaniline  
 CAS No :91-66-7  
 EC No :202-088-8  
 Annex No :612-054-00-8  
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
N,N-diethylaniline	100 %	91-66-7	202-088-8	612-054-00-8	----	T; R23/24/25 R33 N; R51-53  Acute Tox. 3 (skin) _ H311 Acute Tox. 3 (inhal) _ H331 Acute Tox. 3 (oral) _ H301 Aquatic Chronic 2 _ H411

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

##### 4.1. Description of first aid measures

- Inhalation** : Assure fresh air breathing. Allow the victim to rest. Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment (see on this label).
- Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. Remove/ Take off immediately all contaminated clothing. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water.
- Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- Ingestion** : Rinse mouth. Do NOT induce vomiting. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)**
**4. First aid measures (continued)**

**Symptoms relating to use** : Repeated exposure to this material can result in absorption through skin causing significant health hazard.  
 Danger of serious damage to health by prolonged exposure through inhalation.  
 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**

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**5. Fire-fighting measures**
**5.1. Extinguishing media**

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
**Unsuitable extinguishing media** : Do not use a heavy water stream.  
**Surrounding fires** : Use water spray or fog for cooling exposed containers.

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

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

**5.3. Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.  
**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

**For emergency responders** : Equip cleanup crew with proper protection.  
 Ventilate area.  
**For non-emergency personnel** : Evacuate unnecessary personnel.

**6.2. Environmental precautions**

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.  
 Avoid release to the environment.

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

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)**
**6. Accidental release measures (continued)**
**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

Handling	: Avoid breathing dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour.

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

Storage	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

Specific end use(s)	: None.
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**8. Exposure controls/personal protection**
**8.1. Exposure controls**

Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
• Hand protection	: Wear protective gloves.
• Eye protection	: Chemical goggles or safety glasses.
• Others	: When using, do not eat, drink or smoke.

**8.2. Control parameters**

Occupational Exposure Limits	: No data available.
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**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state at 20 °C	: Liquid.
Colour	: Brownish yellow liquid

**MATERIAL SAFETY DATA SHEET (MSDS)**
**N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)**
**9. Physical and chemical properties (continued)**

Odour	: N/A
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -38 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 630 °C
Flammability (solid, gas)	: N/A
Flash point [°C]	: 88 °C
Boiling point [°C]	: 217 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: 1
Density [g/cm <sup>3</sup> ]	: 0,9302
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Partially soluble in
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity	: Not established.
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**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
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**MATERIAL SAFETY DATA SHEET (MSDS)**
**N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)**
**10. Stability and reactivity (continued)**
**10.3. Possibility of hazardous reactions**

**Hazardous reactions** : Not established.

**10.4. Conditions to avoid**

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- Inhalation : Toxic if inhaled.
- Dermal : Toxic in contact with skin.
- Ingestion : Toxic if swallowed.

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Based on available data, the classification criteria are not met.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Based on available data, the classification criteria are not met.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

**12. Ecological information**
**12.1. Toxicity**

**Toxicity information** : Toxic to aquatic life with long lasting effects.

**12.2. Persistence - degradability**

**Persistence - degradability** : May cause long-term adverse effects in the environment.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)**
**12. Ecological information (continued)**
**12.3. Bioaccumulative potential**

Bioaccumulative potential : Not established.

**12.4. Mobility in soil**

Mobility in soil : Not established.

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

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**12.6. Other adverse effects**

Environmental precautions : Avoid release to the environment.

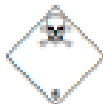
**13. Disposal considerations**
**13.1. Waste treatment methods**

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Hazardous waste due to toxicity.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

Proper shipping name : N,N-DIETHYLANILINE  
 UN N° : 2432  
 H.I. nr : 60  
 ADR - Class : 6.1  
 Labelling - Transport : 6.1 : Toxic substances.



ADR - Classification code : T1  
 ADR - Group : III  
 ADR - Packing instructions : P001 R001 LP001



**MATERIAL SAFETY DATA SHEET (MSDS)**
**N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)**
**14. Transport information (continued)**

ADR - Limited Quantity : 5 L  
 ADR - Tunnel code : E : Passage forbidden through tunnels of category E.


**14.2. Sea transport (IMDG) [English only]**

Proper shipping name : N,N-DIETHYLANILINE  
 UN N° : 2432  
 IMO-IMDG - Class or division : 6.1 : Toxic substances.  
 IMO-IMDG - Packing group : III  
 IMO-IMDG - Packing instructions : P001 LP01  
 IMO-IMDG - Limited quantities : 5 L  
 IMO-IMDG - Marine pollution : Yes  
 EMS-Nr : F-A S-A

**14.3. Air transport (ICAO-IATA) [English only]**

Proper shipping name : N,N-DIETHYLANILINE  
 UN N° : 2432  
 IATA - Class or division : 6.1 : Toxic substances.  
 IATA - Packing group : III  
 IATA - Passenger and Cargo Aircraft : ALLOWED  
   - Passenger and Cargo - Packing : 655  
 instruction  
   - Passenger and Cargo - Maximum : 60 L  
 Quantity/Packing  
 IATA - Cargo only : ALLOWED  
   - Cargo only - Packing instruction : 663  
   - Cargo only - Maximum Quantity/ : 220 L  
 Packing  
 IATA - Limited Quantities : 2 L  
 ERG-Nr : 6L

**15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safety, health and environmental : Ensure all national/local regulations are observed.  
 regulations/legislation specific for the  
 substance or mixture

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**N,N-DIETHYLANILINE AR (REAGENT FOR ZINC)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**