

# Material Safety Data Sheet



**DI-N-BUTYLAMINE FOR SYNTHESIS**

**VERSION : 02**

**DATE OF ISSUE : 26-08-2019**

**SUPERSEDES : 01**

**Product Code : 14136**

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

### **1.1. Product identifier**

**Trade name :** DI-N-BUTYLAMINE FOR SYNTHESIS

**Product code :** 14136

**Identification of the product :** Di-N-Butylamine

**CAS No :** 111-92-2

### **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 :** MOLYCHEM

**Office:** 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

**Email :** [info@molychem.net](mailto:info@molychem.net)

**Works:** Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503

### **1.4. Emergency telephone number**

**Emergency number :** +91 22 4066 8111 (10:00am - 6:00 pm).

## **2. Hazards identification**

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

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

Flammable liquids, H225

Category 2

Acute toxicity (oral), H302

Category 4

Acute toxicity (dermal), H312

Category 4

Acute toxicity (inhal.), H332

Category 4

Skin corrosion/irritation, H314

Category 1A

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

**Adverse physicochemical, human health and environmental effects**

No additional information available

### **2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display**  
**Extra classification(s) to display**

**Symbol(s) :** Xi : Irritation

**Xn:** Harmful

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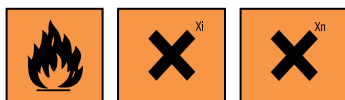
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Highly flammable



**R Phrase(s) :** R10: Flammable.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

**Hazard pictograms :**



**Signal word :** Danger

**Hazard statements :** H225 - Highly flammable liquid and vapour.

H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

H314 - Causes severe skin burns and eye damage.

**Precautionary statements :** P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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.

P310 - Immediately call a POISON CENTER or doctor.

## **2.3. Other hazards**

No additional information available

## **3. Composition/information on ingredients**

**3.1. Substances :** DI-N-BUTYLAMINE FOR SYNTHESIS

CAS-No. : 111-92-2

Substance.

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**

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Take off immediately all contaminated clothing.

Immediately call a POISON CENTER/doctor. Wash with plenty of water/....

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

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First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

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

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after skin contact : Harmful in contact with skin.

Symptoms/effects after ingestion : Harmful if swallowed.

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

Treat symptomatically.

**5. Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media : Carbon dioxide. Dry powder. Water spray. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : 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.

**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 open flames. 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

**7. Handling and storage**

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## **7.1. Precautions for safe handling**

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

Precautions for safe handling : Avoid contact with skin and eyes. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from sources of ignition – No smoking. Do not breathe vapours.

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.

Storage conditions : Keep container tightly closed. Keep in fireproof place.

Incompatible materials : Heat sources.

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

No additional information available

## **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 safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

## **9. Physical and chemical properties**

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

**Odour threshold** : No data available

**pH** : 11.1 at 1 g/l at 20 °C

**Relative evaporation rate (butylacetate=1)** : No data available

**Melting point** : -62 °C

**Freezing point** : No data available

**Boiling point** : 159 °C

**Flash point** : 40 °C

**Auto-ignition temperature** : 260 °C

**Decomposition temperature** : No data available

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**Flammability (solid, gas) :** Flammable liquid and vapour.

**Vapour pressure :** 2.5 hPa at 20 °C

**Relative vapour density at 20 °C :** 4.5

**Relative density :** No data available

**Density :** 0.76 g/cm<sup>3</sup>

**Solubility : Water:** 4.05 g/l (25°C)

**Log Pow :** 2.06

**Viscosity, kinematic :** No data available

**Viscosity, dynamic :** No data available

**Explosive properties :** No data available

**Oxidising properties :** No data available

**Explosive limits :** 0.006 - 0.068 vol %

## **9.2. Other information**

No additional information available

## **10. Stability and reactivity**

### **10.1. Reactivity**

No additional information available

### **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.

## **11. Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.

Inhalation: Harmful if inhaled.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 11.1 at 1 g/l at 20 °C

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 11.1 at 1 g/l at 20 °C

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

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Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified  
Potential adverse human health effects and symptoms : Harmful if swallowed. Harmful in contact with skin.

## **12. Ecological information**

### **12.1. Toxicity**

No additional information available

### **12.2. Persistence and degradability**

No additional information available

### **12.3. Bioaccumulative potential**

Log Pow 2.06

### **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

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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

## **14. Transport information**

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

### **14.1. UN number**

UN-No. (ADR) : 2248

UN-No. (IMDG) : 2248

UN-No. (IATA) : 2248

UN-No. (ADN) : 2248

UN-No. (RID) : 2248

### **14.2. UN proper shipping name**

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Proper Shipping Name (ADR) : DI-N-BUTYLAMINE  
Proper Shipping Name (IMDG) : DI-n-BUTYLAMINE  
Proper Shipping Name (IATA) : Di-n-butylamine  
Proper Shipping Name (ADN) : DI-N-BUTYLAMINE  
Proper Shipping Name (RID) : DI-n-BUTYLAMINE  
Transport document description (ADR) : UN 2248 DI-N-BUTYLAMINE, 8 (3), II, (D/E)  
Transport document description (IMDG) : UN 2248 DI-n-BUTYLAMINE, 8 (3), II (39°C c.c.)  
Transport document description (IATA) : UN 2248 Di-n-butylamine, 8 (3), II  
Transport document description (ADN) : UN 2248 DI-N-BUTYLAMINE, 8 (3), II  
Transport document description (RID) : UN 2248 DI-n-BUTYLAMINE, 8 (3), II  
**14.3. Transport hazard class(es)**  
**ADR-** Transport hazard class(es) (ADR) : 8 (3)  
Danger labels (ADR) : 8, 3  
**IMDG-** Transport hazard class(es) (IMDG) : 8 (3)  
Danger labels (IMDG) : 8, 3  
**IATA-** Transport hazard class(es) (IATA) : 8 (3)  
Hazard labels (IATA) : 8, 3  
**ADN-** Transport hazard class(es) (ADN) : 8 (3)  
Danger labels (ADN) : 8, 3  
**RID-** Transport hazard class(es) (RID) : 8 (3)  
Danger labels (RID) : 8, 3  
**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) : CF1  
Limited quantities (ADR) : 11  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02  
Mixed packing provisions (ADR) : MP15  
Portable tank and bulk container instructions (ADR) : T7

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Portable tank and bulk container special provisions (ADR) : TP2

Tank code (ADR) : L4BN

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage – Operation (ADR) : S2

Hazard identification number (Kemler No.) : 83

Orange plates :

Tunnel restriction code (ADR) : D/E

EAC code : •3W

APP code : A(fl)

**Transport by sea-** Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP2

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-C

Stowage category (IMDG) : A

Flash point (IMDG) : 39°C c.c.

MFAG-No : 132

**Air transport-** PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y840

PCA limited quantity max net quantity (IATA) : 0.5L

PCA packing instructions (IATA) : 851

PCA max net quantity (IATA) : 1L

CAO packing instructions (IATA) : 855

CAO max net quantity (IATA) : 30L

ERG code (IATA) : 8F

**Inland waterway transport-** Classification code (ADN) : CF1

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) : CF1

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

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Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP15

Portable tank and bulk container instructions (RID) : T7

Portable tank and bulk container special provisions (RID) : TP2

Tank codes for RID tanks (RID) : L4BN

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE6

Hazard identification number (RID) : 83

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

Not applicable

## **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

DI-N-BUTYLAMINE FOR SYNTHESIS is not on the REACH Candidate List

DI-N-BUTYLAMINE FOR SYNTHESIS is not on the REACH Annex XIV List

### **15.1.2. National regulations**

#### **Germany**

Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID No. 593)

12th Ordinance Implementing the Federal

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

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen –

Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

#### **Denmark**

Class for fire hazard : Class II-1

Store unit : 5 liter

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Classification remarks : R10 <H225;H302+H312+H332;H314>; 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

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

## **15.2. Chemical safety assessment**

No additional information available

## **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

## **End of document**

**Prepared by: MOLYCHEM (INDIA)**

**For questions contact: MOLYCHEM**

**Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA)**

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(The statements contained herein are offered for informational purposes only and are

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