

# Safety Data Sheet

## Dibutylamine

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Version: 8.0

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(30036847/SDS GEN CA/EN)

### 1. Identification

#### Product identifier used on the label

### Dibutylamine

#### Recommended use of the chemical and restriction on use

Recommended use\*: Chemical for the synthesis and / or formulation of industrial products; Provided that the product has been supplied after confirmation of compliance with the strictly controlled conditions specified in Art. 18 of the REACH Regulation (EC) No. 1907/2006, this product shall be used as an intermediate in accordance with this Regulation.

Recommended use\*: industrial chemicals

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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

##### Company:

BASF Canada Inc.  
5025 Creekbank Road  
Building A, Floor 2  
Mississauga, ON, L4W 0B6, CANADA

Telephone: +1 289 360-1300

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: (800) 454-COPE (2673)

#### Other means of identification

Chemical family: aliphatic, amine

Synonyms: dibutylamine Use: Chemical used in synthesis and/or formulation of industrial products.

### 2. Hazards Identification

#### According to Hazardous Products Regulations (HPR) (SOR/2022-272)

#### Classification of the product

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|               |                         |                                              |
|---------------|-------------------------|----------------------------------------------|
| Flam. Liq.    | 3                       | Flammable liquids                            |
| Acute Tox.    | 2 (Inhalation - vapour) | Acute toxicity                               |
| Eye Dam.      | 1                       | Serious eye damage                           |
| Acute Tox.    | 3 (oral)                | Acute toxicity                               |
| Acute Tox.    | 3 (dermal)              | Acute toxicity                               |
| Aquatic Acute | 3                       | Hazardous to the aquatic environment - acute |
| Skin Corr.    | 1B                      | Skin corrosion                               |

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

|             |                                             |
|-------------|---------------------------------------------|
| H226        | Flammable liquid and vapour.                |
| H330        | Fatal if inhaled.                           |
| H314        | Causes severe skin burns and eye damage.    |
| H301 + H311 | Toxic if swallowed or in contact with skin. |
| H402        | Harmful to aquatic life.                    |

Precautionary Statements (Prevention):

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P271 | Use only outdoors or in a well-ventilated area.                                                |
| P280 | Wear protective gloves, protective clothing and eye protection or face protection.             |
| P260 | Do not breathe mist or vapour or spray.                                                        |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P284 | In case of inadequate ventilation wear respiratory protection.                                 |
| P243 | Take action to prevent static discharges.                                                      |
| P273 | Avoid release to the environment.                                                              |
| P241 | Use explosion-proof electrical, ventilating and lighting equipment.                            |
| P264 | Wash contaminated body parts thoroughly after handling.                                        |
| P242 | Use non-sparking tools.                                                                        |
| P240 | Ground and bond container and receiving equipment.                                             |

Precautionary Statements (Response):

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P310               | Immediately call a POISON CENTER or physician.                                                                                   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| P361 + P364        | Take off immediately all contaminated clothing and wash it before reuse.                                                         |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.                                                                               |
| P370 + P378        | In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.                                             |

Precautionary Statements (Storage):

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|             |                                              |
|-------------|----------------------------------------------|
| P233        | Keep container tightly closed.               |
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405        | Store locked up.                             |

Precautionary Statements (Disposal):  
P501 Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

In the presence of nitrosating agents, it is possible that this substance forms nitrosamines.

Labeling of special preparations (GHS):  
Corrosive to the respiratory tract.

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## 3. Composition / Information on Ingredients

### According to Hazardous Products Regulations (HPR) (SOR/2022-272)

dibutylamine  
CAS Number: 111-92-2  
Content (W/W):  $\geq 99.5$  -  $\leq 99.94\%$   
Synonym: Di-n-Butylamin

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

#### If on skin:

Wash off thoroughly with ample water. Immediately remove contaminated clothing. Wash contaminated clothing before reuse. If irritation develops, seek medical attention.

#### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Seek medical attention.

#### If swallowed:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: dyspnea, nausea, coughing, headache

*Information on: dibutylamine*

*Symptoms: dyspnea, nausea, coughing, headache*

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Hazards: No applicable information available.

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

#### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:  
water spray, dry powder, foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:  
water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

nitrogen oxides, carbon oxides, amine derivatives

The substances/groups of substances mentioned can be released in case of fire. Under certain conditions in case of fire other hazardous combustion products may be generated. Vapours may form explosive mixture with air.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

### Further information:

If exposed to fire, keep containers cool by spraying with water. Suppress gases/vapours/mists with water spray jet. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

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## 6. Accidental release measures

### Further accidental release measures:

Generation of toxic gases/vapours.

### Personal precautions, protective equipment and emergency procedures

#### Environmental precautions

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Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

Cleaning operations should be carried out only while wearing breathing apparatus. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Collect waste in suitable containers, which can be labeled and sealed. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

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## 7. Handling and Storage

### Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances.

Further information on storage conditions: Keep container tightly closed. Avoid all sources of ignition: heat, sparks, open flame.

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## 8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

### Personal protective equipment

#### Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

#### Hand protection:

Chemical resistant protective gloves should be worn to prevent all skin contact., Suitable materials may include, nitrile rubber (Buna N), fluoroelastomer (Viton), chloroprene rubber (Neoprene), butyl rubber, Consult with glove manufacturer for testing data., Protective glove selection must be based on the user's assessment of the workplace hazards.

#### Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### General safety and hygiene measures:

Wash soiled clothing immediately.

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### 9. Physical and Chemical Properties

|                                                     |                                                                                                                                                       |                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Physical state:                                     | liquid                                                                                                                                                |                             |
| Form:                                               | liquid                                                                                                                                                |                             |
| Odour:                                              | ammonia-like                                                                                                                                          |                             |
| Odour threshold:                                    | Not determined since toxic by inhalation.                                                                                                             |                             |
| Colour:                                             | colourless, clear                                                                                                                                     |                             |
| pH value:                                           | 11.1<br>( 1 g/l, 20 °C)<br>Literature data.                                                                                                           | (other)                     |
| Melting point:                                      | -62 °C<br>( 1,013 hPa)                                                                                                                                |                             |
| Freezing point:                                     | No data available.                                                                                                                                    |                             |
| Boiling point:                                      | 160 °C<br>( 1,013 hPa)                                                                                                                                | (measured)                  |
| Sublimation point:                                  | No applicable information available.                                                                                                                  |                             |
| Flash point:                                        | 40.5 °C                                                                                                                                               | (DIN 51755, closed cup)     |
| Flammability:                                       | Flammable liquid and vapour.                                                                                                                          | (derived from flash point)  |
| Lower explosion limit:                              | 0.63 %(V)<br>( 34 °C)<br>For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point. |                             |
| Upper explosion limit:                              | 9.62 %(V)<br>For liquids not relevant for classification and labelling.                                                                               |                             |
| Autoignition:                                       | 255 °C                                                                                                                                                | (Directive 92/69/EEC, A.15) |
| SADT:                                               | Not a substance/mixture liable to self-decomposition according to GHS.                                                                                |                             |
| Vapour pressure:                                    | 2.26 hPa<br>( 20.3 °C)<br>dynamic                                                                                                                     | (measured)                  |
| Density:                                            | 0.7601 g/cm3<br>( 20.0 °C)                                                                                                                            | (DIN 51757)                 |
| Relative density:                                   | 0.7594<br>( 20 °C)                                                                                                                                    | (DIN 51757)                 |
| Relative vapour density:                            | > 1<br>( 20 °C)<br>Heavier than air.                                                                                                                  | (estimated)                 |
| Partitioning coefficient n-octanol/water (log Pow): | 2.1<br>( 23 °C)                                                                                                                                       | (OECD Guideline 107)        |
| Refractive index:                                   | 1.4188<br>( 20 °C )                                                                                                                                   |                             |
| Self-ignition temperature:                          | Based on its structural properties the product is not classified as self-igniting.                                                                    |                             |
| Thermal decomposition:                              | 175 °C, 150 kJ/kg (DSC (DIN 51007))<br>Thermal decomposition above the indicated temperature is possible.<br>405 °C, 200 kJ/kg (DSC (DIN 51007))      |                             |

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|                            |                                            |
|----------------------------|--------------------------------------------|
| Viscosity, dynamic:        | 0.85 mPa.s<br>( 20 °C)<br>Literature data. |
| Viscosity, kinematic:      | No applicable information available.       |
| Solubility in water:       | 3.8 g/l<br>( 20 °C)                        |
| Solubility (quantitative): | No applicable information available.       |
| Solubility (qualitative):  | No applicable information available.       |
| Molecular weight:          | 129.25 g/mol                               |
| Evaporation rate:          | No data available.                         |

### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form.

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## 10. Stability and Reactivity

### Reactivity

Vapours may form explosive mixture with air.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

|                               |          |                                                    |
|-------------------------------|----------|----------------------------------------------------|
| Formation of flammable gases: | Remarks: | Forms no flammable gases in the presence of water. |
|-------------------------------|----------|----------------------------------------------------|

### Chemical stability

The product is stable if stored and handled as prescribed/indicated. The product may become unstable at elevated temperatures and under pressure.

### Possibility of hazardous reactions

Strong exothermic reaction with acids.

### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge.

### Incompatible materials

acids, acid forming substances

### Hazardous decomposition products

Decomposition products:

Possible decomposition products: nitrosamines

Possible thermal decomposition products: carbon oxides, nitrogen oxides, nitrous gases

Thermal decomposition:

175 °C (DSC (DIN 51007))

Thermal decomposition above the indicated temperature is possible.

405 °C (DSC (DIN 51007))

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### 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### Acute Toxicity/Effects

##### Acute toxicity

Assessment of acute toxicity: Of pronounced toxicity after single ingestion. Of pronounced toxicity after short-term skin contact. Of high toxicity after short-term inhalation.

##### Oral

Type of value: LD50

Species: rat (female)

Value: 220 mg/kg (similar to OECD guideline 401)

Literature data.

##### Inhalation

Type of value: LC50

Species: rat (male/female)

Value: 1.2 mg/l (similar to OECD guideline 403)

Exposure time: 4 h

The vapour was tested.

##### Dermal

Type of value: LD50

Species: rabbit (male)

Value: 768 mg/kg

Literature data.

Type of value: ATE

Value: 300 mg/kg

##### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

##### Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes.

##### Skin

Species: rabbit

Result: Corrosive.

Method: similar to OECD guideline 404

##### Eye

Species: rabbit

Result: irreversible damage

Method: similar to OECD guideline 405

##### Sensitization



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Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Buehler test

Species: guinea pig

Result: Non-sensitizing.

Method: similar to OECD guideline 406

### Aspiration Hazard

not applicable

### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: After repeated administration the prominent effect is the induction of corrosion. The information available on the product provides no indication of toxicity on target organs after repeated exposure.

#### Genetic toxicity

Assessment of mutagenicity: In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays.

#### Carcinogenicity

Assessment of carcinogenicity: No data available. Under certain conditions the substance can form nitrosamines. Nitrosamines are carcinogenic in animal studies.

#### Reproductive toxicity

Assessment of reproduction toxicity: No data available.

#### Teratogenicity

Assessment of teratogenicity: Mortality observed in rabbits following high oral exposure. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### Toxicity to fish

LC50 (96 h) > 100 mg/l, *Oryzias latipes* (OECD Guideline 203, semistatic)

The statement of the toxic effect relates to the analytically determined concentration. The product will cause changes in the pH value of the test system. The result refers to a neutralized sample. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Aquatic invertebrates

EC50 (48 h) 58 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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### Aquatic plants

EC50 (72 h) 34 mg/l, Pseudokirchneriella subcapitata (OECD Guideline 201, static)  
The statement of the toxic effect relates to the analytically determined concentration.

EC10 (72 h) 10.06 mg/l, Pseudokirchneriella subcapitata (OECD Guideline 201, static)  
The statement of the toxic effect relates to the analytically determined concentration.

### Chronic toxicity to fish

No observed effect concentration (32 d) 10 mg/l, Pimephales promelas (OECD Guideline 210, Flow through.)  
Nominal values (confirmed by concentration control analytics)

### Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) 7.58 mg/l, Daphnia magna (OECD Guideline 211, semistatic)  
The statement of the toxic effect relates to the analytically determined concentration.

### Assessment of terrestrial toxicity

No data available.  
Study not necessary due to exposure considerations.

## **Microorganisms/Effect on activated sludge**

### Toxicity to microorganisms

DIN 38412 Part 8 aerobic  
bacterium/EC50 (17 h): 196 mg/l  
Nominal concentration.

OECD Guideline 209 aquatic  
activated sludge, industrial/EC20 (30 min): > 1,995 mg/l  
Nominal concentration.

## **Persistence and degradability**

### Assessment biodegradation and elimination (H2O)

Readily biodegradable (according to OECD criteria).

### Elimination information

90 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EWG, C.4-D) (aerobic, activated sludge, domestic)

### Assessment of stability in water

According to structural properties, hydrolysis is not expected/probable.

### Information on Stability in Water (Hydrolysis)

According to structural properties, hydrolysis is not expected/probable.

## **Bioaccumulative potential**

### Assessment bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

### Bioaccumulation potential

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Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

### Mobility in soil

#### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.  
Adsorption to solid soil phase is possible.

### Additional information

Other ecotoxicological advice:

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. The local regulations on waste-water treatment must be followed.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Incinerate in suitable incineration plant, observing local authority regulations.

### **Container disposal:**

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned. In case of passing empty and unclean containers to others please inform about possible dangers.

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## 14. Transport Information

### **Land transport**

TDG

Hazard class: 8  
Packing group: II  
ID number: UN 2248  
Hazard label: 8, 3  
Proper shipping name: DI-N-BUTYLAMINE

### **Sea transport**

IMDG

Hazard class: 8  
Packing group: II  
ID number: UN 2248  
Hazard label: 8, 3  
Marine pollutant: NO  
Proper shipping name: DI-N-BUTYLAMINE

### **Air transport**

IATA/ICAO

Hazard class: 8  
Packing group: II  
ID number: UN 2248  
Hazard label: 8, 3  
Proper shipping name: DI-N-BUTYLAMINE

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### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical DSL, CA released / listed

##### NFPA Hazard codes:

Health: 3 Fire: 2 Reactivity: 0 Special:

#### Assessment of the hazard classes according to UN GHS criteria (most recent version):

|               |                         |                                              |
|---------------|-------------------------|----------------------------------------------|
| Flam. Liq.    | 3                       | Flammable liquids                            |
| Acute Tox.    | 2 (Inhalation - vapour) | Acute toxicity                               |
| Acute Tox.    | 3 (dermal)              | Acute toxicity                               |
| Acute Tox.    | 3 (oral)                | Acute toxicity                               |
| Eye Dam.      | 1                       | Serious eye damage                           |
| Skin Corr.    | 1B                      | Skin corrosion                               |
| Aquatic Acute | 3                       | Hazardous to the aquatic environment - acute |

### 16. Other Information

#### SDS Prepared by:

BASF NA Product Regulations  
SDS Prepared on: 2025/09/15

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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