

# SAFETY DATA SHEET



Di-n-butylamine  
10220

Version / Revision  
Supersedes Version

2.01  
2.00\*\*\*

Revision Date  
Issuing date

04-Sep-2019  
04-Sep-2019

## SECTION 1: Identification

### 1.1. Product identifier

Identification of the  
substance/preparation

**Di-n-butylamine**

CAS-No 111-92-2

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

Use of the Substance /  
Preparation Intermediate  
Uses advised against None

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

Supplier **OXEA Corporation**  
1505 West LBJ Freeway, Suite 400  
Dallas, TX 75234  
USA  
Phone: +1 972 481 2700

Product Information Product Stewardship  
FAX: +49 (0)208 693 2053  
email: psq@oxea-chemicals.com

### 1.4. Emergency telephone number

Emergency telephone number in USA, call 800 424 9300  
outside USA, call +1.703.527.3887, collect calls accepted  
available 24/7

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

Acute oral toxicity Category 4, H302  
Acute dermal toxicity Category 3, H311  
Acute inhalation toxicity Category 2, H330  
Skin corrosion/irritation Category 1A, H314  
Serious eye damage/eye irritation Category 1, H318  
Flammable liquid Category 3, H226

Emergency telephone number  
1 / 15

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USA (A-US)

# SAFETY DATA SHEET



Di-n-butylamine  
10220

Version / Revision 2.01

Environmental hazard Aquatic Acute 2; H401

OSHA Specified Hazards Not applicable.

## 2.2. Label elements

Labeling according to §1910.1200 (GHS-US labeling).

### Hazard symbol(s)



Signal word

**Danger**

### Hazard statements

H226: Flammable liquid and vapor.  
H311: Toxic in contact with skin.  
H302: Harmful if swallowed.  
H330: Fatal if inhaled.  
H314: Causes severe skin burns and eye damage.  
H401: Toxic to aquatic life

### Precautionary statements

#### Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242: Use non-sparking tools.  
P243: Take action to prevent static discharges.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well ventilated area.  
P284: Wear respiratory protection.  
P260: Do not breathe gas/mist/vapours.  
P273: Avoid release to the environment.

#### Response

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P321: Specific treatment: IF ON SKIN: Wash off with 3% acetic acid followed by large amounts of plain water for at least 5 min as a final step.  
P361: Take off immediately all contaminated clothing and wash it before reuse.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Emergency telephone number  
2 / 15

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USA (A-US)

# SAFETY DATA SHEET



Di-n-butylamine  
10220

Version / Revision 2.01

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.

## Storage

P403 + P235: Store in a well ventilated place. Keep cool.  
P405: Store locked up.

## Disposal

P501: Dispose of contents/container in accordance with local regulation.

## 2.3. Other hazards

Vapour/air-mixtures are explosive at intense warming  
Components of the product may be absorbed into the body by inhalation, ingestion and through the skin

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	Concentration (%)
Dibutylamine	111-92-2	> 99,5

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Keep at rest. Aerate with fresh air. Call a physician immediately. Symptoms of poisoning may develop many hours after exposure.

#### Skin

Wash off with 3% acetic acid followed by large amounts of plain water for at least 5 min as a final step. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

#### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

#### Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

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

#### Main symptoms

shortness of breath, convulsions, cough, hypertensive effect, allergic reactions, vomiting, unconsciousness, nausea, abdominal pain, circulatory collapse.

#### Special hazard

Stomach perforation, Lung oedema, Kidney disorders.

# SAFETY DATA SHEET



Di-n-butylamine  
10220

Version / Revision 2.01

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

### General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat as an alkaline substance (similar to ammonia). If ingested, irrigate the stomach. Treat skin and mucous membranes with antihistamine and corticoids. In case of lung irritation, first treatment with cortisone spray. Symptoms may be delayed. Later control for pneumonia and lung oedema.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water spray

#### Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

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

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

nitrogen oxides (NO<sub>x</sub>)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapours are heavier than air and may spread along floors

Vapour/air-mixtures are explosive at intense warming

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

#### Precautions for firefighting

Cool containers / tanks with water spray. Dike and collect water used to fight fire. Water run-off and vapor cloud may be corrosive. Keep people away from and upwind of fire.

## SECTION 6: Accidental release measures

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

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

For emergency responders: Personal protection see section 8.\*\*\*

# SAFETY DATA SHEET



Di-n-butylamine  
10220

Version / Revision 2.01

## 6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

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

### Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

### Methods for cleaning up

Soak up with inert absorbent material. DO NOT use combustible materials such as sawdust. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

## 6.4. Reference to other sections

For personal protective equipment see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin, eyes and clothing. Do not use compressed air for filling, discharging or handling. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms. Refill and handle product only in closed system.

#### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

#### Advice on the protection of the environment

See Section 8: Environmental exposure controls.

#### Incompatible products

acids  
acid anhydrides  
oxidizing agents

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

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour/air-mixtures are explosive at intense warming.

#### Technical measures/Storage conditions

Emergency telephone number  
5 / 15

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USA (A-US)

# SAFETY DATA SHEET



**Di-n-butylamine**  
**10220**

**Version / Revision** 2.01

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Handle under nitrogen, protect from moisture. Keep at temperatures between -18 and 38 °C (0 and 100 °F).

## **Unsuitable material**

copper, Tin, Aluminium, including their alloys

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

### **8.1. Control parameters**

#### **Exposure limits United States of America**

No exposure limits established regarding ACGIH, OSHA Z-1 and OSHA Z-2.

### **8.2. Exposure controls**

#### **Appropriate Engineering controls**

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

#### **Individual protection measures, such as personal protective equipment**

##### **General industrial hygiene practice**

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

##### **Hygiene measures**

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

##### **Eye protection**

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

##### **Hand protection**

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

<b>Suitable material</b>	nitrile rubber
<b>Evaluation</b>	according to EN 374: level 6
<b>Glove thickness</b>	approx 0,55 mm
<b>Break through time</b>	> 480 min

<b>Suitable material</b>	polyvinylchloride
<b>Evaluation</b>	Information derived from practical experience
<b>Glove thickness</b>	approx 0,8 mm

# SAFETY DATA SHEET



Di-n-butylamine  
10220

Version / Revision 2.01

## Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

## Respiratory protection

Respirator with filter for ammonia vapour and ammonia derivatives (K Filter). Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (vapor or mist). Equipment should conform to NIOSH.\*\*\*

## Environmental exposure controls

Use product only in closed system. If leakage can not be prevented, the substance needs to be suck off at the emission point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.\*\*\*

## SECTION 9: Physical and chemical properties

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

Appearance	liquid				
Colour	colourless				
Odour	ammonia-like				
Odour threshold	No data available				
pH	11,3 (1 g/l in water @ 20 °C (68 °F))				
Melting point/range	-76 - -74 °F (-60 - -59 °C) (Pour point)				
Boiling point/range	320 °F (160 °C) @ 1 atm (101,3 kPa)				
Flash point	105 °F (40,5 °C)				
Method	DIN 51755				
Evaporation rate	No data available				
Flammability (solid, gas)	Does not apply, the substance is a liquid				
Lower explosion limit	1,1 Vol %				
Upper explosion limit	6,8 Vol %				
<b>Vapour pressure</b>					
Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
2,2	0,22	0,002	20	68	
26	2,6	0,026	50	122	
Vapour density	4,5 (Air = 1) @ 20 °C (68 °F)				
<b>Relative density</b>					
Values	@ °C	@ °F	Method		
0,759	20	68	DIN 51757		
Solubility	No data available				
Water solubility	3,8 g/l @ 68 °F (20 °C)				
log Pow	2.9 (measured) OECD 117***				
Autoignition temperature	491 °F (255 °C)				
Method	DIN 51794				
Decomposition temperature	No data available				
Viscosity	0,85 mPa*s @ 68 °F (20 °C)				
Method	dynamic				

Emergency telephone number  
7 / 15

in USA, call 800 424 9300; outside USA, call USA 703 527 3887, collect calls accepted  
USA (A-US)

# SAFETY DATA SHEET



Di-n-butylamine  
10220

Version / Revision 2.01

## 9.2. Other information

<b>Molecular weight</b>	129,24
<b>Molecular formula</b>	C8 H19 N
<b>Oxidizing properties</b>	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties
<b>Refractive Index</b>	1,417 @ 68 °F (20 °C)
<b>Explosive properties</b>	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

### 10.5. Incompatible materials

acids, oxidizing agents.

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed. If heated to thermal decomposition the following decomposition products may occur depending on the conditions. carbon monoxide (CO). nitrogen oxides (NOx). cyanides. nitric acid. nitriles.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Likely routes of exposure** Ingestion, Inhalation, Eye contact, Skin contact

**Dibutylamine, CAS: 111-92-2**

#### **Main symptoms**

shortness of breath, convulsions, cough, hypertensive effect, allergic reactions, vomiting, unconsciousness, nausea,

**Emergency telephone number**  
8 / 15

in USA, call 800 424 9300; outside USA, call USA 703 527 3887, collect calls accepted  
USA (A-US)



# SAFETY DATA SHEET



**Di-n-butylamine**  
**10220**

Version / Revision 2.01

abdominal pain, circulatory collapse.

### Target Organ Systemic Toxicant - Single exposure

Based on available data, the classification criteria are not met for:

STOT SE

### Target Organ Systemic Toxicant - Repeated exposure

Based on available data, the classification criteria are not met for:

STOT RE

<b>Acute toxicity</b>				
<b>Dibutylamine (111-92-2)</b>				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	550 mg/kg	rat, male	
Dermal	LD50	768 mg/kg	rabbit	Draize Test
Inhalative	LC50	1,15 mg/l (4h)	rat, male/female	OECD 403

### Dibutylamine, CAS: 111-92-2

#### Assessment

The available data lead to the classification given in section 2

<b>Irritation and corrosion</b>				
<b>Dibutylamine (111-92-2)</b>				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	corrosive	OECD 404	< 3 min
Eyes	rabbit	corrosive	OECD 405	

### Dibutylamine, CAS: 111-92-2

#### Assessment

The available data lead to the classification given in section 2

For respiratory irritation, no data are available

<b>Sensitization</b>				
<b>Dibutylamine (111-92-2)</b>				
Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig	not sensitizing	EPA OTS 798.4100	

### Dibutylamine, CAS: 111-92-2

#### Assessment

Based on available data, the classification criteria are not met for:

Skin sensitization

For respiratory sensitization, no data are available

<b>Subacute, subchronic and prolonged toxicity</b>				
<b>Dibutylamine (111-92-2)</b>				
Type	Dose	Species	Method	
Subchronic toxicity	NOAEC: 50 mg/m <sup>3</sup> (90 d)	rat, male	OECD 413	Inhalation

### Dibutylamine, CAS: 111-92-2

#### Assessment

Emergency telephone number  
9 / 15

in USA, call 800 424 9300; outside USA, call USA 703 527 3887, collect calls accepted  
USA (A-US)

# SAFETY DATA SHEET



Di-n-butylamine  
10220

Version / Revision 2.01

Based on available data, the classification criteria are not met for:  
STOT RE

<b>Carcinogenicity, Mutagenicity, Reproductive toxicity</b>					
<b>Dibutylamine (111-92-2)</b>					
Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	Ames test	In vitro study
Mutagenicity		mouse	negative	OECD 475	Bone marrow
Mutagenicity		mouse lymphoma cells	negative	OECD 476 (Mammalian Gene Mutation)	In vitro study
Mutagenicity		CHL	ambiguous	OECD 473 (Chromosomal Aberration)	In vitro study
Reproductive toxicity	NOAEL 40 mg/kg/d	rat, parental		OECD 422, Oral	read across
Developmental Toxicity	NOAEL 15 mg/kg/d	rat	Maternal toxicity	OECD 414, Oral	read across
Developmental Toxicity	NOAEL 150 mg/kg/d	rat	Developmental toxicity	OECD 414, Oral	read across

## **Dibutylamine, CAS: 111-92-2**

### **CMR Classification**

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

### **Evaluation**

In vitro tests did not show mutagenic effects

## **Dibutylamine, CAS: 111-92-2**

### **Aspiration toxicity**

no data available

### **Other adverse effects**

Components of the product may be absorbed into the body by inhalation, ingestion and through the skin.

### **Note**

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

<b>Acute aquatic toxicity</b>			
<b>Dibutylamine (111-92-2)</b>			
Species	Exposure time	Dose	Method
Oncorhynchus mykiss (rainbow trout)	96h	LC50: 5,5 mg/l (soft water)	IRSA

Emergency telephone number  
10 / 15

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USA (A-US)

# SAFETY DATA SHEET



**Di-n-butylamine**  
**10220**

**Version / Revision** 2.01

Oncorhynchus mykiss (rainbow trout)	96h	LC50: 37 mg/l (hard water)	IRSA
Daphnia magna (Water flea)	48h	EC50: 65,98 mg/l	79/831/EEC.C2
Ceriodaphnia dubia	48h	LC50: 8,4 mg/l	
Desmodesmus subspicatus	72h	EC50: 16,91 mg/l (Growth rate)	DIN 38412, part 9
Desmodesmus subspicatus	72h	EC50: 9,43 mg/l (Biomass)	DIN 38412, part 9
Pseudomonas putida	17 h	EC50: 195,8 mg/l (Growth inhibition)	DIN 38412, part 8

## Long term toxicity

### Dibutylamine (111-92-2)

Type	Species	Dose	Method	
Reproductive toxicity	Daphnia magna (Water flea)	NOEC: 4,2 mg/l (21d)	OECD 211	read across
Reproductive toxicity	Daphnia magna (Water flea)	LC50: 5,7 mg/l/21d	OECD 211	read across

## 12.2. Persistence and degradability

### Dibutylamine, CAS: 111-92-2

#### Biodegradation

95 % (28 d), Sewage, aerobic, OECD 301 C.

#### Abiotic Degradation

### Dibutylamine (111-92-2)

Type	Result	Method
Photolysis***	Half-life (DT50): 4,29 h***	calculated***
Hydrolysis***	not expected***	

## 12.3. Bioaccumulative potential

\*\*\*

### Dibutylamine (111-92-2)

Type	Result	Method
log Pow***	2,9***	OECD 117***
BCF***	0,768***	calculated***

## 12.4. Mobility in soil

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### Dibutylamine (111-92-2)

Type	Result	Method
Surface tension***	50,6 mN/m (1,0048 g/l @ 20°C (68°F))***	OECD 115***
Adsorption/Desorption***	log Koc: 3,12 @ pH 5-8***	calculated***
Distribution to environmental	Air: 72,6 Soil: 0,2 Water: 26,5	calculated***

**Emergency telephone number**  
11 / 15

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USA (A-US)

# SAFETY DATA SHEET



Di-n-butylamine  
10220

Version / Revision 2.01

compartments***	Sediment: 0,3***	
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## 12.5. Results of PBT and vPvB assessment

### Dibutylamine, CAS: 111-92-2

#### **PBT and vPvB assessment**

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

## 12.6. Other adverse effects

### Dibutylamine, CAS: 111-92-2

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Product Information**

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

#### **Uncleaned empty packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## SECTION 14: Transport information

### D.O.T. (49CFR)

<b>14.1. UN number</b>	UN 2248
<b>14.2. UN proper shipping name</b>	Di-n-butylamine
<b>14.3. Transport hazard class(es)</b>	8
Subsidiary Risk	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	no
<b>14.6. Special precautions for user</b>	
Emergency Response Guide	132

### ICAO-TI / IATA-DGR

<b>14.1. UN number</b>	UN 2248
------------------------	---------

Emergency telephone number  
12 / 15

in USA, call 800 424 9300; outside USA, call USA 703 527 3887, collect calls accepted  
USA (A-US)

# SAFETY DATA SHEET



Di-n-butylamine  
10220

Version / Revision 2.01

---

<b>14.2. UN proper shipping name</b>	Di-n-butylamine
<b>14.3. Transport hazard class(es)</b>	8
Subsidiary Risk	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	no
<b>14.6. Special precautions for user</b>	no data available

## IMDG

<b>14.1. UN number</b>	UN 2248
<b>14.2. UN proper shipping name</b>	Di-n-butylamine
<b>14.3. Transport hazard class(es)</b>	8
Subsidiary Risk	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	no
<b>14.6. Special precautions for user</b>	
EmS	F-E, S-C

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

Product name	Dibutylamine
Ship type	3
Pollution category	Y

## **SECTION 15: Regulatory information**

### **Federal and State Regulations**

Components of the product are listed in the quoted regulations. For details please refer to the regulations directly. This list is not exhaustive, please check for other applicable regulations.

#### **Federal Regulations**

This product is listed on the TSCA inventory

#### **State Regulations**

##### **Dibutylamine, CAS: 111-92-2**

MA RTK List\*\*\*  
NY RTK List\*\*\*  
PA RTK List\*\*\*  
RI RTK List\*\*\*

#### **International Inventories**

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Emergency telephone number  
13 / 15

in USA, call 800 424 9300; outside USA, call USA 703 527 3887, collect calls accepted  
USA (A-US)

# SAFETY DATA SHEET



**Di-n-butylamine**  
**10220**

**Version / Revision** 2.01

## **Dibutylamine, CAS: 111-92-2**

AICS (AU)<sup>\*\*\*</sup>  
DSL (CA)<sup>\*\*\*</sup>  
IECSC (CN)<sup>\*\*\*</sup>  
EC-No. 2039218 (EU)<sup>\*\*\*</sup>  
ENCS (2)-137 (JP)<sup>\*\*\*</sup>  
ISHL (2)-137 (JP)<sup>\*\*\*</sup>  
KECI 97-1-21 (KR)  
KECI KE-04223 (KR)<sup>\*\*\*</sup>  
INSQ (MX)<sup>\*\*\*</sup>  
PICCS (PH)<sup>\*\*\*</sup>  
TSCA (US)<sup>\*\*\*</sup>  
NZIoC (NZ)<sup>\*\*\*</sup>  
TCSI (TW)<sup>\*\*\*</sup>

## **SECTION 16: Other information**

**Revision Date** 04-Sep-2019  
**Issuing date** 04-Sep-2019

### **Hazard Rating Systems**

#### **NFPA (National Fire Protection Association)**

Health Hazard	3
Fire Hazard	2
Reactivity	0

#### **HMIS (Hazardous Material Information System)**

Health Hazard	3
Flammability	2
Physical Hazard	0

### **Training advice**

For effective first-aid, special training / education is needed.

### **Sources of key data used to compile the datasheet**

Information contained in this safety data sheet is based on Oxea owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

### **Further information for the safety data sheet**

Changes against the previous version are marked by <sup>\*\*\*</sup>. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the Oxea homepage ([www.oxea-chemicals.com](http://www.oxea-chemicals.com)).

The use of a comma in section 3 and section 7 to 12 is the same as a period.

### **Disclaimer**

**For industrial use only.** The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Oxea makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of

**Emergency telephone number**  
14 / 15

in USA, call 800 424 9300; outside USA, call USA 703 527 3887, collect calls accepted  
USA (A-US)

# SAFETY DATA SHEET



**Di-n-butylamine**  
**10220**

**Version / Revision**

2.01

---

use contemplated. User must meet all applicable safety and health standards.

**End of Safety Data Sheet**