

## Chemical Safety Data Sheet MSDS / SDS

**DICHLORAMINE B**

Revision Date:2026-03-20 Revision Number:1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name : DICHLORAMINE B  
CBnumber : CB2438944  
CAS : 473-29-0  
EINECS Number : 207-461-9  
Synonyms : DichloraminB;Dichloroamine B

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

**Company Identification**

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

**SECTION 2: Hazards identification****GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Danger

**Precautionary statements**

P501 Dispose of contents/container to....  
P371+P380+P375 in case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
P306+P360 IF ON CLOTHING: Rinse Immediately contaminated CLOTHING and SKIN with plenty of water before removing clothes.  
P283 Wear fire/flame resistant/retardant clothing.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P264 Wash skin thoroughly after handling.  
P221 Take any precaution to avoid mixing with combustibles/...  
P220 Keep/Store away from clothing/.../combustible materials.  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

**Hazard statements**

H319 Causes serious eye irritation

H315 Causes skin irritation

H271 May cause fire or explosion; strong oxidiser

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## SECTION 3: Composition/information on ingredients

### Substance

Product name	: DICHLORAMINE B
Synonyms	: DichloraminB;Dichloroamine B
CAS	: 473-29-0
EC number	: 207-461-9
MF	: C6H5Cl2NO2S
MW	: 226.08

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## SECTION 4: First aid measures

### If inhaled

Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention if you feel unwell.

### In case of skin contact

Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash off with plenty of water. Immediately call a POISON CENTER or doctor/ physician.

### In case of eye contact

Rinse with plenty of water. If easy to do, remove contact lens, if worn. Immediately call a POISON CENTER or doctor/ physician.

### If swallowed

Get medical advice/ attention. Rinse mouth.

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

None known.

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## SECTION 5: Firefighting measures

### Suitable extinguishing media

Dry powder, Foam, Water spray, Carbon dioxide (CO<sub>2</sub>)

### Specific hazards during fire fighting

Fight fire remotely due to the risk of explosion.

### Specific extinguishing methods

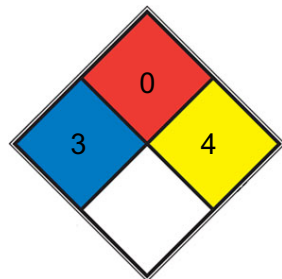
In case of fire: Evacuate area. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Immediately evacuate personnel to safe areas. Cool closed containers exposed to fire with water spray. Remove undamaged containers from fire area if it is safe to do so.

### Special protective equipment for fire-fighters

Use personal protective equipment.

### NFPA 704



HEALTH 3 Short exposure could cause serious temporary or moderate residual injury (e.g. [liquid hydrogen](#), [sulfuric acid](#), [calcium hypochlorite](#), hexafluorosilicic acid)

FIRE 0 Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. Materials that will not burn in air when exposed to a temperature of 820 °C (1,500 °F) for a period of 5 minutes.(e.g. Carbon tetrachloride)

REACT 4 Readily capable of detonation or explosive decomposition at normal temperatures and pressures (e.g. [nitroglycerin](#), chlorine dioxide, nitrogen triiodide)

SPEC.  
 HAZ.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

### Environmental precautions

Prevent product from entering drains.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust.

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## SECTION 7: Handling and storage

### Handling

#### Technical measures

Prevent dispersion of dust. Take precautionary measures against static discharge. Use explosion-proof equipment.

#### Local/Total ventilation

Ensure adequate ventilation. Use a local exhaust ventilation.

#### **Advice on safe handling**

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, shock or friction. Wash hands and face thoroughly after handling.

#### **Avoidance of contact**

Oxidizing agents, Reducing agents

#### **Storage**

##### **Conditions for safe storage**

Keep container tightly closed. Store in a cool and shaded area. Protect from moisture. Keep under inert gas. Do not store near combustible materials. Avoid shock and friction.

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## SECTION 8: Exposure controls/personal protection

#### **Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

#### **Engineering measures**

Install a closed system or local exhaust.

Also install safety shower and eye bath.

#### **Personal protective equipment**

##### **Respiratory protection**

Dust mask

##### **Eye/face protection**

Safety glasses

Face-shield

##### **Skin and body protection**

Flame retardant protective clothing

##### **Hand protection**

Protective gloves \*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

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## SECTION 9: Physical and chemical properties

#### **Information on basic physicochemical properties**

solid

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#### **Color**

white - green

#### **Odor**

No data available

### **Odor Threshold**

No data available

### **pH**

No data available

### **Melting point/freezing point**

74 °C

### **Boiling point/boiling range**

319.2±25.0 °C(Predicted)

### **Flash point**

No data available

### **Evaporation rate**

No data available

### **Flammability**

No data available

### **Upper explosion limit / Upper flammability limit**

No data available

### **Lower explosion limit / Lower flammability limit**

No data available

### **Vapor pressure**

No data available

### **Solubility(ies)**

soluble in Methanol,Chloroform

### **Water solubility**

No data available

### **Solubility in other solvents**

soluble Solvent: Methanol soluble Solvent: Chloroform

### **Partition coefficient: n-octanol/water**

No data available

### **Autoignition temperature**

No data available

### **Decomposition temperature**

No data available

### **Viscosity**

#### **Viscosity, dynamic**

No data available

#### **Viscosity, kinematic**

No data available

### **Molecular weight**

226.07 g/mol

### **Density and/or relative density**

1.562±0.06 g/cm<sup>3</sup>(Predicted)

### **Physical state**

powder to crystal

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## SECTION 10: Stability and reactivity

### **Reactivity**

No data available

### **Chemical stability**

Stable under normal conditions.

### **Possibility of hazardous reactions**

May explosively decompose on heating, shock, friction, etc.

### **Conditions to avoid**

Heat. Electrical spark Open flame Avoid shock and friction. Exposure to air. Exposure to moisture. Exposure to light.

### **Incompatible materials**

Oxidizing agents, Reducing agents

### **Hazardous decomposition products**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas

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## SECTION 11: Toxicological information

### **Acute toxicity**

Classified based on available data. For more details, see section 2.

## **Skin corrosion/irritation**

### **Product**

### **Result**

Skin irritation

### **Components**

#### **Dichloramine B**

### **Result**

Skin irritation

## **Serious eye damage/eye irritation**

### **Product**

### **Result**

Eye irritation

### **Components**

#### **Dichloramine B**

### **Result**

Eye irritation

## **Respiratory or skin sensitization**

Classified based on available data. For more details, see section 2.

## **Germ cell mutagenicity**

Classified based on available data. For more details, see section 2.

## **Carcinogenicity**

Classified based on available data. For more details, see section 2.

## **Reproductive toxicity**

Classified based on available data. For more details, see section 2.

## **STOT-single exposure**

Classified based on available data. For more details, see section 2.

## **STOT-repeated exposure**

Classified based on available data. For more details, see section 2.

### **Repeated dose toxicity**

Classified based on available data. For more details, see section 2.

### **Aspiration toxicity**

Classified based on available data. For more details, see section 2.

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## SECTION 12: Ecological information

### **Ecotoxicity**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

No data available

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## SECTION 13: Disposal considerations

### **Disposal methods**

#### **Waste from residues**

Disposal in accordance with local and national regulations. Take precautions against ignition or explode. Entrust disposal to a licensed waste disposal company.

#### **Contaminated packaging**

Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

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## SECTION 14: Transport information

### **International Regulations**

#### **IATA-DGR**

##### **UN/ID No.**

UN 1479

##### **Proper shipping name**

Oxidizing solid, n.o.s.

##### **Class**

5.1

**Packing group**

I

**IMDG-Code**

**UN number**

UN 1479

**Proper shipping name**

OXIDIZING SOLID, N.O.S.

**Class**

5.1

**Packing group**

I

**EmS Code**

F-A, S-Q

**Domestic regulation**

**GB 6944/12268**

**UN number**

UN 1479

**Proper shipping name**

OXIDIZING SOLID, N.O.S.

**Class**

5.1

**Packing group**

I

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## SECTION 15: Regulatory information

### Measures on the Environmental Administration of New Chemical Substances Registration

**Registration/Notification number**

B1A232214738

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

### The ingredients of this product are reported in the following inventories

**CH BAGREG**

On the inventory, or in compliance with the inventory

**TSCA**

Substance(s) not active on TSCA inventory

**AICS**

Not in compliance with the inventory

**DSL**

None of the components of this product are on the Canadian DSL, but all are on the NDSL

Dichloramine B

**ENCS**

On the inventory, or in compliance with the inventory

**ISHL**

On the inventory, or in compliance with the inventory

**KECI**

Not in compliance with the inventory

**PICCS**

On the inventory, or in compliance with the inventory

**IECSC**

Not in compliance with the inventory

**NZIoC**

Not in compliance with the inventory

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## SECTION 16: Other information

### Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

**Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.