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## MATERIAL SAFETY DATA SHEET

1-Butyl-3-methylimidazolium chloride

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** 1-Butyl-3-methylimidazolium chloride

**Synonyms:**

**Company:** NANJING MSN CHEMICAL CO.,LTD.

**Address:**827 Ruikai Building ,101 Xiaoshan Road Liuhe Nanjing, China

**TEL:**+86-25-57015632

**FAX:**+86-25-57019235

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

**CAS:** 79917-90-1

**Chemical Name:** 1-Butyl-3-methylimidazolium chloride

**Hazard Symbols:** XI

**Risk Phrases:** 36/37/38

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin. Hygroscopic (absorbs moisture from the air). Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Causes skin irritation. May be harmful if absorbed through the skin. Ingestion:

May cause irritation of the digestive tract. May be harmful if swallowed. Inhalation:

Causes respiratory tract irritation. Chronic:

Not available.

### 4. FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:



Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water. Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

## 5. FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

## 6. ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in 8. Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

## 7. HANDLING and STORAGE

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Use and store under nitrogen.

Storage:

Store in a cool, dry place. Store in a tightly closed container. Store under nitrogen.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:



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Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Color:	white
Odor:	Not available.
pH:	Not available.
Vapor Pressure:	Not available.
Viscosity:	170.1 cP (80 deg C)
Boiling Point:	Not available.
Freezing/Melting Point:	73 deg C
Autoignition Temperature:	Not available.
Flash Point:	Not available.
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	
Solubility in water:	
Specific Gravity/Density:	
Molecular Formula:	C <sub>8</sub> H <sub>15</sub> CIN <sub>2</sub>
Molecular Weight:	174.67

## 10. STABILITY AND REACTIVITY

Chemical Stability: Not available.

Conditions to Avoid:

Incompatible materials, exposure to moist air or water. Incompatibilities with Other Materials:

Strong oxidizing agents. Hazardous

Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen fluoride gas. Hazardous

Polymerization: Has not been reported

## 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 79917-90-1 unlisted.

LD50/LC50:

Not available.



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Carcinogenicity: 1-Butyl-3-methylimidazolium chloride -  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in  
RTECS for complete information.

## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

## 15. REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives Hazard Symbols:

XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek  
medical advice.

S 37/39 Wear suitable gloves and eye/face protection. WGK (Water

Danger/Protection)

CAS# 79917-90-1: No information available. United Kingdom

Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

None of the chemicals in this product are listed on the DSL/NDSL list. CAS# 79917-90-1 is  
not listed on Canada's Ingredient Disclosure List.

Exposure Limits US FEDERAL

TSCA

CAS# 79917-90-1 is not listed on the TSCA inventory.



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It is for research and development use only.

## **16. ADDITIONAL INFORMATION**

MSDS Creation Date: 12/31/2010 Revision #1 Date: 1/1/2015

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