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# Safety Data Sheet

## 1. Chemical product and company identification

Product name : 1-Allyl-3-butylimidazolium tetrafluoroborate

**Company information**

Name of manufacturer : KANTO CHEMICAL CO., INC.
Address : 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, JP
Name of section : Business Administration Department, Reagent Division
Telephone number : +81-3-6214-1090
Facsimile number : +81-3-3241-1047
Mail address : BC32@kanto.co.jp
Reference No : 01934

## 2. Hazards identification

**GHS classification**

| | | |
|---|---|---|
| Health hazards | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2A |

Hazard pictograms

Signal word : Warning

Hazard statements : Causes skin irritation
Causes serious eye irritation

**Precautionary statements**

Prevention : Wash hands, forearms and face thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response : IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see supplemental first aid instruction on this label).
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

## 3. Composition/information on ingredients

Distinction of substance or mixture : Substance

| Chemical name | Concentration (%) | Formula | TSCA | EC-No. | CAS RN |
|---|---|---|---|---|---|
| 1-Allyl-3-butylimidazolium tetrafluoroborate | 100 | C10H17N2·BF4 | Not listed | - | 863498-32-2 |

## 4. First aid measures

### First aid measures

First-aid measures after inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.

First-aid measures after skin contact : Wash the affected areas under running water.

First-aid measures after eye contact : Wash the affected areas under running water for at least 15 minutes. If necessary, get medical treatment.

First-aid measures after ingestion : Rinse mouth with water. Give the victim one or two glasses of water or milk. Do not induce vomiting. Get medical treatment as soon as possible.

Personal Protection in First Aid and Measures : Rescuers should wear proper protective equipment like rubber gloves, goggles.

## 5. Fire fighting measures

Suitable extinguishing media : Dry chemical powder, carbon dioxide, dry sand, foam

Unsuitable extinguishing media : Water spray

Firefighting instructions : Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.

Fight fire from windward.

Dry chemical powder, carbon dioxide or dry sand should be used for small fires. Foam extinguisher is effective for a large scale fire.

Personal protection (Emergency response) : Firefighters should wear protective equipment.

## 6. Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Wear proper protective equipment and avoid contact with skin and inhalation of vapor. Conduct operations from upwind and evacuate people downwind. Keep away personnel except for authorized ones from spillage area by stretching ropes.

### Environmental precautions

Environmental precautions : Attention should be given to avoid damage to the environment by flowing of spillage to rivers.

### Methods and Equipment for Containment and Cleaning up

For containment : Absorb spill with inert material (e.g, diatomaceous earth, sand) and flush spillage area with copious amounts of water.

## 7. Handling and storage

### Handling

| | | |
|---|---|---|
| Technical measures | : | Wear proper protective equipment to avoid contact with skin or inhalation of vapor. |
| Precautions for safe handling | : | Use with an enclosed system or a local exhaust ventilation. |

**Storage**

| | | |
|---|---|---|
| Storage conditions | : | Store in a dark, cool place and tightly closed. |
| Material used in packaging/containers | : | Glass, polyethylene, polypropylene. |

## 8. Exposure controls / Personal protection equipment

| | |
|---|---|
| ACGIH TWA | Not established |

| | | |
|---|---|---|
| Appropriate engineering controls | : | Use with an enclosed system or a local exhaust ventilation. |

**Protective equipment**

| | | |
|---|---|---|
| Respiratory protection | : | If necessary, wear a chemical cartridge respirator. |
| Hand protection | : | Impervious protective gloves |
| Eye protection | : | Safety goggles |
| Skin and body protection | : | Protective clothing, protective boots |

## 9. Physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Color | : | Yellow |
| Odor | : | Slight characteristic |
| pH | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability | : | Heating may cause a fire. |
| Vapor pressure | : | No data available |
| Relative density | : | No data available |
| Density | : | No data available |
| Relative gas density | : | No data available |
| Solubility | : | No data available |
| Partition coefficient n-octanol/water (log Pow) | : | No data available |
| Explosive limits (vol %) | : | No data available |
| Viscosity, kinematic | : | No data available |
| Particle characteristics | : | No data available |

## 10. Stability and reactivity

| | | |
|---|---|---|
| Reactivity | : | May react with oxidizing substances. |
| Chemical stability | : | Stable under normal conditions. |

| | | |
|---|---|---|
| Possibility of hazardous reactions | : | Stable under normal conditions of use. |
| Conditions to avoid | : | Light, heat. |
| Incompatible materials | : | Oxidizing substances. |
| Hazardous decomposition products | : | Carbon monoxide, nitrogenoxides, fluorine, hydrogen fluoride. |

## 11. Toxicological information

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Classification not possible |
| Acute toxicity (dermal) | : | Classification not possible |
| Acute toxicity (inhalation) | : | No classification (gas)<br>Classification not possible (vapor)<br>Classification not possible (dust, mist) |
| Skin corrosion/irritation | : | Causes skin irritation<br>Since the substance causes skin irritation, it was classified into category 2. |
| Serious eye damage/irritation | : | Causes serious eye irritation<br>Since the substance causes eye irritation, it was classified into category 2A. |
| Respiratory sensitization | : | Classification not possible |
| Skin sensitization | : | Classification not possible |
| Germ cell mutagenicity | : | Classification not possible |
| Carcinogenicity | : | Classification not possible |
| Reproductive toxicity | : | Classification not possible |
| STOT-single exposure | : | Classification not possible<br>May cause respitarory tract irritation. |
| STOT-repeated exposure | : | Classification not possible |
| Aspiration hazard | : | Classification not possible |

## 12. Ecological information

### Ecotoxicity

| | | |
|---|---|---|
| Aquatic acute | : | Classification not possible |
| Aquatic chronic | : | Classification not possible |

### Persistence and degradability

No additional information available

### Bioaccumulative potential

No additional information available

### Mobility in soil

No additional information available

### Hazardous to the ozone layer

| | | |
|---|---|---|
| Ozone | : | Classification not possible |

## 13. Disposal considerations

| | | |
|---|---|---|
| Ecology - waste materials | : | Burn in a chemical incinerator equipped with an afterburner and a scrubber. Or entrust approved waste disposal companies with the disposal.<br>The incinerator should be suitable for burning organic halogen compounds. |

| | | |
|---|---|---|
| | | Alkaline solution should be used for cleaning liquid of the scrubber. |
| Contaminated container and packaging | : | In case of disposal of empty bottles, dispose bottles after removing the content thoroughly. |

## 14. Transport information

**International Regulations**

**Transport by sea(IMDG)**

| | | |
|---|---|---|
| UN-No. (IMDG) | : | Not applicable |
| Proper Shipping Name (IMDG) | : | Not applicable |
| Packing group (IMDG) | : | Not applicable |
| Transport hazard class(es) (IMDG) | : | Not applicable |

**Air transport(IATA)**

| | | |
|---|---|---|
| UN-No. (IATA) | : | Not applicable |
| Proper Shipping Name (IATA) | : | Not applicable |
| Packing group (IATA) | : | Not applicable |
| Transport hazard class(es) (IATA) | : | Not applicable |
| Marine pollutant | : | Not applicable |

## 15. Regulatory information

Regulatory information with regard to this substance in your country or region should be examined by your own responsibility.

## 16. Other information

| | | |
|---|---|---|
| Data sources | : | Encyclopaedia Chimica, Kyoritsu Shuppan Co, Ltd. (1963) . NITE Chemical Risk Information Platform (NITE-CHRIP), National Institute of Technology and Evaluation. |

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the product carefully.The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements.The information herein is only provision of information, and it does not represent a guarantee the properties of the product.The Safety Data Sheet(SDS) is prepared based on JIS Z7253.