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1-Butyl-1-Methylpyrrolidinium Tetrafluoroborate CAS No 345984-11-4

MATERIAL SAFETY DATA SHEET SDS/MSDS

| 1.1 | Product identifiers Product name | : | 1-Butyl-1-Methylpyrrolidinium Tetrafluoroborate |
|---|--|---|--|
| | CAS-No. | : | 345984-11-4 |
| 1.2 Relevant identified uses of the substance or mixture and us | | e substance or mixture and uses advised against | |
| | Identified uses | : | Laboratory chemicals, Industrial & for professional use only. |
| 1.3 | Details of the supplier of Company | : | afety data sheet Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA |
| | Telephone Email | | +91 11 49404040 care@cdhfinechemical.com |
| 1.4 | Emergency telephone I Emergency Phone # | | r +91 11 49404040 (9:00am - 6:00 pm) [Office hours] |
| SEC | TION 2: Hazards identifica | ation | |
| 2.1 | Classification of the substance or mixture | | |
| | Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 | | |

Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

| 3.1 | Substances | | | | | | | |
|------------------------------------|----------------------------|---|-------------------------|---|---------------|--|--|--|
| | Formula | : | C9H20BF4N | | | | | |
| | Molecular weight | : | 229.07 g/mol | | | | | |
| | CAS-No. | : | 345984-11-4 | | | | | |
| Hazardous ingredients Component | | cord | ling to Regulation (EC) | No 1272/2008 Classification | Concentration | | | |
| | 1-Butyl-1-methylpyrrolidii | Butyl-1-methylpyrrolidinium tetrafluoroborate | | | | | | |
| | CAS-No. | 34 | 5984-11-4 | Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335 | <= 100 % | | | |

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Hydrofluoric (HF) acid burns require immediate and specialized first aid a hours depending on the concentration of HF. After decontamination with wa penetration/absorption of the fluoride ion. Treatment should be directed exposure. Skin exposures can be treated with a 2.5% calcium gluconate gel exposures may require subcutaneous calcium gluconate except for digital a technique, due to the potential for tissue injury from increased pressure and should be considered when undergoing decontamination. Prevention of a obtained by giving milk, chewable calcium carbonate tablets or Milk of Ma hypocalcemia, hypomagnesemia and cardiac arrhythmias should be monitored

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician. First treatment with calcium gluconate paste.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Hydrogen fluoride, Borane/boron oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

For precautions see section 2.2.

- 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Combustible Solids
- 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| a) | Appearance | Form: solid Colour: white | |
|--------------------------|--|------------------------------|--|
| b) | Odour | sweet | |
| c) | Odour Threshold | No data available | |
| d) | рН | No data available | |
| e) | Melting point/freezing point | No data available | |
| f) | Initial boiling point and boiling range | No data available | |
| g) | Flash point | No data available | |
| h) | Evaporation rate | No data available | |
| i) | Flammability (solid, gas) | No data available | |
| j) | Upper/lower flammability or explosive limits | No data available | |
| k) | Vapour pressure | No data available | |
| I) | Vapour density | No data available | |
| m) | Relative density | No data available | |
| n) | Water solubility | No data available | |
| o) | Partition coefficient: n- octanol/water | No data available | |
| p) | Auto-ignition temperature | No data available | |
| q) | Decomposition temperature | No data available | |
| r) | Viscosity | No data available | |
| s) | Explosive properties | No data available | |
| t) | Oxidizing properties | No data available | |
| Other safety information | | | |

9.2

No data available

SECTION 10: Stability and reactivity

- 10.1 Reactivity No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- 10.4 Conditions to avoid No data available
- **10.5** Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen fluoride, Borane/boron oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available1-Butyl-1-methylpyrrolidinium tetrafluoroborate

Skin corrosion/irritation No data available(1-Butyl-1-methylpyrrolidinium tetrafluoroborate)

Serious eye damage/eye irritation No data available(1-Butyl-1-methylpyrrolidinium tetrafluoroborate)

Respiratory or skin sensitisation

No data available(1-Butyl-1-methylpyrrolidinium tetrafluoroborate)

Germ cell mutagenicity

No data available(1-Butyl-1-methylpyrrolidinium tetrafluoroborate)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(1-Butyl-1-methylpyrrolidinium tetrafluoroborate)

Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.(1-Butyl-1-methylpyrrolidinium tetrafluoroborate)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(1-Butyl-1-methylpyrrolidinium tetrafluoroborate)

Additional Information

RTECS: Not available

Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia.

SECTION 12: Ecological information

- 12.1 Toxicity No data available
- 12.2 Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available(1-Butyl-1-methylpyrrolidinium tetrafluoroborate)
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

| | - | | |
|------|--|---------------------------|----------|
| 14.1 | UN number ADR/RID: - | IMDG: - | IATA: - |
| 14.2 | UN proper shipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods | | |
| 14.3 | Transport hazard class(es) ADR/RID: - | IMDG: - | IATA: - |
| 14.4 | Packaging group ADR/RID: - | IMDG: - | IATA: - |
| 14.5 | Environmental hazards ADR/RID: no | IMDG Marine pollutant: no | IATA: no |
| 14.6 | Special precautions for user | | |

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

| H315 | Causes skin irritation. |
|------|-----------------------------------|
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.