1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 1-Butyl-3-Methylimidazolium bis(trifluoromethanesulfonyl)imide

Catalog number: Im0408a

Manufacturer: SOLVIONIC SA
Chemin de la loge
31078 TOULOUSE
FRANCE

Tel: +33 (0)5 62 25 73 71
Fax: +33 (0)5 61 25 13 98
E-mail: contact@solvionic.com

Emergency call number: (INRS) 01 45 42 59 59

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Acute toxicity, Oral (Category 2)
Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)
Chronic aquatic toxicity (Category 2)

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Toxic if swallowed. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram

Signal word Danger

Hazard statement(s)
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H413 Maybe cause long lasting harmful effects to aquatic life

Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
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 P310 Immediately call a POISON CENTER or doctor/physician.

Supplemental Hazard none


R-phrase(s)
R25    Toxic if swallowed.
R36/37/38   Irritating to eyes, respiratory system and skin.
R51/53   Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)
S26   In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45   In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61   Avoid release to the environment. Refer to special instructions/ Safety data sheets

Substance not yet fully tested.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Product name</th>
<th>EC number</th>
<th>CAS number</th>
<th>Annex I Index number</th>
<th>%</th>
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<tbody>
<tr>
<td>1-Butyl-3-Methylimidazolium</td>
<td>/</td>
<td>174899-83-3</td>
<td>/</td>
<td>99.9</td>
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<tr>
<td>bis(trifluoromethanesulfonyl)imide</td>
<td></td>
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</table>

4. FIRST AID MEASURES

**Inhalation:**
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**Skin exposure:**
In case of contact, immediately flush with copious amounts of water. Remove contaminated clothing and shoes.

**Eye exposure:**
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Ingestion:**
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5. FIRE FIGHTING MEASURES

**Extinguishing media:**
Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

**Special risks:**
Emits toxic fumes under fire conditions.

**Special protective equipment for firefighters:**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

**Personal protective equipment:**
Wear chemical resistant gloves and protective clothing.

**Methods for cleaning up:**
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

**Handling:**
Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Use under nitrogen.

**Storage:**
Keep tightly closed. Store under nitrogen.
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls:
Safety shower and eye bath. Use only in a chemical fume hood.

Personal protective equipment:
Respiratory protection:
Use respirators tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:
Wear chemical safety gloves.

Eye protection:
Wear chemical safety glasses.

Skin protection:
Wear appropriate protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Appearance</td>
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<tr>
<td>Smell</td>
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<tr>
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<td>C_{10}H_{15}F_{6}N_{3}O_{4}S_{2}</td>
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<td>Molecular weight</td>
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</table>

10. STABILITY AND REACTIVITY

Stability:
Stable Until 250°C

Hazardous reactions:
Hazardous polymerization will not occur.

Materials to avoid:
Strong oxidizing agents.

Hazardous decomposition products:
Hydrogen fluoride (HF), Carbon dioxide (CO₂), carbon monoxide (CO), nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

General informations:

Acute toxicity
DL₅₀ Oral(e) - rat - > 50 - < 300 mg/kg
Dermale: Toxic upon contact with the skin.

Sensitizing
Has no effect making sensitive on the animals of laboratory.

Chronic exposure
IARC: No component of this present product in concentrations bigger than or equal to 0.1% was identified as likely, possible carcinogenic or recognized for the man by IARC.

Tests on bacterial cultures or cells of mammals did not show effects mutagene.

**Route of exposure:**

**Skin contact:**
May cause skin irritation.

**Skin absorption:**
May be harmful if absorbed through the skin.

**Eye contact:**
May cause eye irritation.

**Inhalation:**
Material may irritate mucous membranes and upper respiratory tract. May be harmful if inhaled.

**Ingestion:**
May be harmful if swallowed.

### 12. ECOLOGICAL INFORMATION

**Information for the elimination (pasistance and degradability)**
No data

**Ecotoxicological effects**
Toxicity for the fish: Brachydanio rerio (fish streaks) - > 100 mg/l - 96 h
Toxicity for the daphnie and the other aquatic invertebrates: No data

**Additional information about the ecology**
Toxic for the aquatic bodies, can have long-term fatal effects for the environment Aquatic.

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**
Dispose of as unused product.

### 14. TRANSPORTATION INFORMATION

**RID/ADR**

UN-Number: 2810  
Class: 6.1  
Packing group: III  
Proper shipping name: TOXIC, LIQUID, ORGANIC, N.O.S. (1-Butyl-3-methylimidazolium bis(trifluoromethanesulfonylimide))

**IATA**

UN-Number: 2810  
Class: 6.1  
Packing group: III  
Proper shipping name: TOXIC, LIQUID, ORGANIC, N.O.S. (1-Butyl-3-methylimidazolium bis(trifluoromethanesulfonylimide))

**IMDG**

UN-Number: 2810  
Class: 6.1  
Packing group: III  
Proper shipping name: TOXIC, LIQUID, ORGANIC, N.O.S. (1-Butyl-3-methylimidazolium bis(trifluoromethanesulfonylimide))

**Environmental hazards**

ADR/RID: No data available  
IMDG Marine pollutant: yes  
IATA: No data available

**Special precautions for user**
No data available
15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

Chemical Safety Assessment
No data available

16. OTHER INFORMATION

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

For research and development use only.