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

**1.1 Product identifier**

**Trade name:** 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide 99%

**Article number:** IM0208C

**CAS Number:** 174899-82-2

**EC number:** 700-235-5

**UFI:** PT51-9022-U00P-XNWH

**1.2 Relevant identified uses of the substance or mixture and uses advised against** No other important information available.

**Application of the substance / the mixture** This product is intended for the exclusive use of Research and Development

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Solvionic SA
195 route d'Espagne
31036 TOULOUSE
FRANCE

**Phone number:** +33 (0)5.34.63.35.35

**Further information obtainable from:** HSE Department

**1.4 Emergency telephone number:**

ORFILA (INRS): +33 (0)1.45.42.59.59

CCHST: 1-800-668-4284 (Canada & U.S.A)

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

GHS06

Acute Tox. 3 H301 Toxic if swallowed.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS06

**Signal word** Danger

**Hazard-determining components of labelling:**

1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide

1-methylimidazole

lithium bis(trifluoromethylsulfonyl)imide

**Hazard statements**

H301 Toxic if swallowed.

**Precautionary statements**

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P312 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

---

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.
**SECTION 3: Composition/information on ingredients**

### 3.1 Chemical characterisation: Substances

<table>
<thead>
<tr>
<th>CAS No. / Description</th>
<th>EC number:</th>
<th>Molecular formula</th>
<th>Molar mass:</th>
</tr>
</thead>
<tbody>
<tr>
<td>174899-82-2 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide</td>
<td>700-235-5</td>
<td>C₈H₁₁F₆N₃O₄S₂</td>
<td>391.31 g/mol</td>
</tr>
</tbody>
</table>

**- Dangerous components:**

<table>
<thead>
<tr>
<th>CAS:</th>
<th>EC number:</th>
<th>Molecular formula</th>
<th>Molar mass:</th>
</tr>
</thead>
<tbody>
<tr>
<td>174899-82-2</td>
<td>700-235-5</td>
<td>1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide</td>
<td>99%</td>
</tr>
<tr>
<td>616-47-7</td>
<td></td>
<td>1-methylimidazole</td>
<td>≤0.3%</td>
</tr>
<tr>
<td>90076-65-6</td>
<td></td>
<td>lithium bis(trifluoromethylsulfonyl)imide</td>
<td>≤0.3%</td>
</tr>
</tbody>
</table>

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- **General information:**
  - Immediately remove any clothing soiled by the product.
  - In case of irregular breathing or respiratory arrest provide artificial respiration.
  - **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
  - **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
  - **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
  - **After swallowing:** Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

#### 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

#### 5.3 Advice for firefighters

- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use individual protective gear.

#### 6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

#### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispense contaminated material as waste according to item 13.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

No special precautions are necessary if used correctly.

- **Information about fire - and explosion protection:** No special measures required.
7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  Requirements to be met by storerooms and receptacles: No special requirements.
  Information about storage in one common storage facility: Not required.
  Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s)
No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
  - Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing.
    Wash hands before breaks and at the end of work.
  - Respiratory protection: Not required.
  - Protection of hands:
    Neoprene gloves
    To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required.
  - Eye protection:
    Goggles recommended during refilling.
  - Body protection:
    Use protective suit.

**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties
- General Information
  - Form:
    Fluid
  - Color:
    Colorless
  - Odor:
    Not determined.
  - Odor threshold:
    Not determined.
  - pH-value:
    Not determined.
  - Conductivity:
    at 20°C: 174899-82-2 | 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonil)imide: 8,577 mS/cm
    at 25°C: 174899-82-2 | 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonil)imide: 9,400 mS/cm
  - Change in condition:
    Melting point/freezing point: -16 °C
    Initial boiling point and boiling range: Undetermined.
  - Crystallisation temperature / range:
    174899-82-2 | 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonil)imide: - 40 °C
  - Flash point: Not applicable.
  - Flammability (solid, gas): Not applicable.
  - Decomposition temperature: Not determined.
  - Auto-ignition temperature: Not determined.
  - Explosive properties:
    Product does not present an explosion hazard.
  - Explosion limits:
    Lower: Not determined.
    Upper: Not determined.
  - Vapour pressure at 300 °C:
    0,072 hPa
  - Density at 20 °C:
    1,52 g/cm³
  - Bulk density:
    1,520 kg/m³
SECTION 10: Stability and reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
No further relevant information available.

10.5 Incompatible materials:
Strong oxidizer and strong base.

10.6 Hazardous decomposition products:
No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Toxic if swallowed.

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>CAS: 174899-82-2 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyle)imide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50 200 mg/kg (rat)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 616-47-7 1-methylimidazole</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50 1.144 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50 400-640 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

Primary irritant effect:
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure
- Specific target organ toxicity - repeated exposure
- Aspiration hazard

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability
No further relevant information available.

12.3 Bioaccumulative potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.
Trade name: 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide 99%

Additional ecological information:

General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects
No further relevant information available.

* SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue
HP6 Acute Toxicity

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

* SECTION 14: Transport information

14.1 UN-Number
ADR/RID/ADN, IMDG, IATA
UN2810

14.2 UN proper shipping name
ADR/RID/ADN
UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide)
IMDG, IATA
TOXIC LIQUID, ORGANIC, N.O.S. (1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide)

14.3 Transport hazard class(es)
ADR/RID/ADN, IMDG, IATA

Class 6.1 Toxic substances.
Label 6.1

14.4 Packing group
ADR/RID/ADN, IMDG, IATA
III

14.5 Environmental hazards:
Not applicable.

14.6 Special precautions for user
Warning: Toxic substances.
Hazard identification number (Kemler code): 60
EMS Number: F-A,S-A
Stowage Category A
Stowage Code SW2 Clear of living quarters.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable.

Transport/Additional information:
ADR/RID/ADN
Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
Transport category 2
Tunnel restriction code E
IMDG
Limited quantities (LQ) 5L

(Contd. on page 6)
Trade name: 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide 99%

(Contd. of page 5)

<table>
<thead>
<tr>
<th>Excepted quantities (EQ)</th>
<th>Code: E1</th>
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<tbody>
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| UN "Model Regulation": | UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (1-ETHYL-3-METHYLIMIDAZOLIUM BIS(TRIFLUOROMETHANESULFONYL)IMIDE), 6.1, III |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU
Named dangerous substances - ANNEX I Substance is not listed.
Seveso category H2 ACUTE TOXIC
Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2 Chemical safety assessment:
For this product, no chemical safety assessment has been performed.
A Chemical Safety Assessment has not been carried out.

SECTION 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.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

For research and development use only.

Relevant phrases
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Department issuing SDS: Environmental Protection Service
Contact:
Mail: hse@solvionic.com
Phone number: +33 (0)5.34.63.35.35

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labeling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity - oral – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Dam. 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.