**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 99.9%

**Article number:** IM0208A

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

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

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)

**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 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.

P321 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

- **CAS No. / Description**

  174899-82-2 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide

- **Identification number(s)**

  EC number: 700-235-5

- **Molecular formula:** C8 H11 F6 N3 O4 S2

(Contd. on page 2)
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. 
  Call for a doctor 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). Dispose 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.

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: None.

7.3 Specific end use(s) 
No further relevant information available.
Trade name: 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide 99.9%

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.

- Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Neoprene gloves

- Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- 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(trifluoromethanesulfonyl)imide 8.577 mS/cm
  - at 25°C: 174899-82-2 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)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(trifluoromethanesulfonyl)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
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.

- Solubility in / Miscibility with
  - water: Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  - Dynamic at 20 °C: 37.3 mPas
  - Kinematic: Not determined.

9.2 Other information: No further relevant information available.

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. (Contd. on page 4)
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>Route</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>200 mg/kg (rat)</td>
<td></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.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

- CMR effects (carcinogenity, 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 Based on available data, the classification criteria are not met.

- Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

- Aspiration hazard Based on available data, the classification criteria are not met.

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.

Additional ecological information:

General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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
UN3287
Trade name: 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide 99.9%

14.2 UN proper shipping name
ADR/RID/ADN, IMDG, IATA
UN3287 TOXIC LIQUID, INORGANIC, 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
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":
UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (1-ETHYL-3-METHYLIMIDAZOLIMIDAZOLOBIS(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:
A Chemical Safety Assessment has not been performed.

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.

**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 Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
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

* Data compared to the previous version altered.