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

1.1 Product identifier
Trade name: 1-Octyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide 99,5%
Article number: IM0808B
CAS Number: 178631-04-4

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.
Acute Tox. 3 H311 Toxic in contact with skin.

GHS08
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS05
Skin Corr. 1B H314 Causes severe skin burns and eye damage.

GHS09
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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

GHS05 GHS06 GHS08 GHS09

Signal word Danger

Hazard statements
H301+H311 Toxic if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
Trade name: 1-Octyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide 99.5%

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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
  178631-04-4 1-Octyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide
- Molecular formula: C14 H23 F6 N3 O4 S2
- Molar mass: 475.47 g/mol

SECTION 4: First aid measures

4.1 Description of first aid measures
- General information:
  Immediately remove any clothing soiled by the product.
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  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.
  Drink plenty of water and provide fresh air. 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
Wear protective equipment. Keep unprotected persons away.
Use individual protective gear.

6.2 Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
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).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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Trade name: 1-Octyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide 99.5%

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:** 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.
    - Store protective clothing separately.
    - Avoid contact with the eyes and skin.
  - **Respiratory protection:**
    - In case of brief exposure or low pollution use respiratory filter device.
    - In case of intensive or longer exposure use self-contained respiratory protective device.
  - **Protection of hands:**
    - **Protective gloves**
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
      - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
    - **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.
    - **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:**
    - Tightly sealed goggles
  - **Body protection:**
    - Use protective suit.

SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

- **General Information**
  - **Appearance:**
    - **Form:** Liquid
    - **Colour:** Yellow
  - **Odour:** Not determined.
  - **Odour threshold:** Not determined.
  - **pH-value:** Not determined.
## 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 or in contact with skin.

- **Primary irritant effect:**
  - **Skin corrosion/irritation**
    Causes severe skin burns and eye damage.
  - **Serious eye damage/irritation**
    Causes severe skin burns and eye damage.

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

- **Specific target organ toxicity - repeated exposure**
  May cause damage to organs through prolonged or repeated exposure.

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Safety data sheet
according to 1907/2006/EC, Article 31

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Revision: 15.04.2019
Version number: 4

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- 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.

Ecotoxicological effects:
Remark: Toxic for fish

Additional ecological information:
General notes:
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

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
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 6 | Acute Toxicity |
| HP 8 | Corrosive |
| HP 14 | Ecotoxic |

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

**SECTION 14: Transport information**

14.1 UN-Number
ADR/RID/ADN, IMDG, IATA: UN2922

14.2 UN proper shipping name
ADR/RID/ADN: UN2922 CORROSIVE LIQUID, TOXIC, N.O.S. (1-Octyl-3-methylimidazolium bis(trifluoromethanesulfonylimide)), ENVIRONMENTALLY HAZARDOUS
IMDG, IATA: CORROSIVE LIQUID, TOXIC, N.O.S. (1-Octyl-3-methylimidazolium bis(trifluoromethanesulfonylimide))

14.3 Transport hazard class(es)
ADR/RID/ADN: 8 Corrosive substances.

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according to 1907/2006/EC, Article 31

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(Contd. of page 5)

Label
IMDG

Class
Label
IMDG

8+6.1

8 Corrosive substances.

8/6.1

IATA

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

II

14.5 Environmental hazards:
Special marking (ADR/RID/ADN):
Class
Label
IMDG

8 Corrosive substances.

8 (6.1)

IMDG

IATA

14.6 Special precautions for user
Warning: Corrosive substances.
Danger code (Kemler):
EMS Number:
Stowage Category
Stowage Code

86
F-A,S-B
B
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)
1L
Exempted quantities (EQ)
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

IMDG
Limited quantities (LQ)
1L
Exempted quantities (EQ)
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation":
UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (1-OCTYL-3-METHYLIMIDAZOLIUM BIS(TRIFLUOROMETHANESULFONYL)IMIDE), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS

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 E2 Hazardous to the Aquatic Environment
Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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 (Contd. on page 7)
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
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 3: Acute toxicity – Category 3
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2