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

1.1 Product identifier
- **Trade name:** 1-((4-Sulfobutyl)-3-methylimidazolium trifluoromethanesulfonate 98%
- **Article number:** IMSF1705C

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
- **Address:** 195 route d'Espagne
- **Postcode:** 31036 TOULOUSE
- **Country:** 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.

- **GHS05**
  - **Skin Corr. 1B** H314 Causes severe skin burns and eye damage.
  - **Aquatic Chronic 3** H412 Harmful 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

**Signal word** Danger

**Hazard statements**
- H301+H311 Toxic if swallowed or in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**
- **P260** Do not breathe dusts or mists.
- **P300+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.

(Contd. on page 2)
SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances
- CAS No./Description
1-(4-Sulfobutyl)-3-methylimidazolium trifluoromethanesulfonate
Molecular formula: C9 H15 F3 O6 S2 N2
Molar mass: 368.35 g/mol

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:
Immediately wash with water and soap and rinse thoroughly.
- After skin contact:
Do not induce vomiting; call for medical help immediately.
Call for a doctor immediately.
Drinking plenty of water and provide fresh air.
- After eye contact:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- After swallowing:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

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.
- 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.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Disposal contaminated material as waste according to item 13.
Ensure adequate ventilation.
- 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.
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: Not required.
  . 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: Fluid
    Colour: Yellow
  . Odour: Not determined.
  . Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  . Melting point/freezing point: Undetermined.
  . Initial boiling point and boiling range: Undetermined.
- 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: Not determined.
- Density at 20 °C: 1.517 g/cm³
- Bulk density: 1.517 kg/m³

(Contd. on page 4)
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 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.
Ecotoxic effects: Remark: Harmful to fish
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.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

(Contd. on page 5)
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 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
IMDG, IATA

14.3 Transport hazard class(es)
ADR/RID/ADN

<table>
<thead>
<tr>
<th>Class</th>
<th>Label</th>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Corrosive substances.</td>
<td>8+6.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class</th>
<th>Label</th>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Corrosive substances.</td>
<td>8/6.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class</th>
<th>Label</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Corrosive substances.</td>
<td>(6.1)</td>
</tr>
</tbody>
</table>

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

14.5 Environmental hazards:
Not applicable.

14.6 Special precautions for user
Warning: Corrosive substances.
Danger code (Kemler): 86
EMS Number: F-A,S-B
Stowage Category B

(Contd. on page 6)
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): 1L Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
  - Excepted quantities (EQ)
  - Transport category: 2
  - Tunnel restriction code (IMDG)
  - Limited quantities (LQ): 1L Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
  - Excepted quantities (EQ)

**UN "Model Regulation":**

- UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (1-(4-SULFOBUTYL)-3-METHYLMIDAZOLIUM TRIFLUOROMETHANESULFONATE), 8 (6.1), II

### 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.
- 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.

**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
- 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
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3