

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

Printing date 02.12.2021

Version number 9

Revision: 02.12.2021

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

1.2 Relevant identified uses of the substance or mixture and uses advised against No other important information available.- **Sector of Use** SU24 Scientific research and development- **Product category** PC21 Laboratory chemicals**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

11 chemin des Silos

31100 TOULOUSE

FRANCE

T: +33 (0).32.26.20.20

@: contact@solvionic.com

Further information obtainable from: Department of Regulatory affairs**1.4 Emergency telephone number:**

- United Kingdom: Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust, +44 20 7188 7188.

- Ireland: National Poisons Information Centre Beaumont Hospital, +353 1 809 2566 (Healthcare professionals 24/7), +353 1 809 2166 (public, 8am - 10pm, 7/7).

- France ORFILA (INRS): +33 (0)1.45.42.59.59.

- Belgique, Belgie/Belgium: Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid

Rue Bruyn 1 - 1120 Bruxelles/Brussel. Toutes les questions urgentes concernant une intoxication: 070 245 245 (gratuit, 24/7), si pas accessible 02 264 96 30 (tarif normal). Alle dringende vragen over vergiftigingen: 070 245 245 (gratis, 24/7), of indien onbereikbaar tel. 02 264 96 30 (normaal tarief).

- Sverige/ Sweden: Giftinformationscentralen Box 60 500 : 112 – begär Giftinformation ,+46 10 456 6700 (Från utlandet)

- Ελλάδα / Greece: Poisons Information Centre Children's Hospital P&A Kyriakou, +30 21 07 79 37 77.

- Italia/Italy: Centro Antiveleni di Roma CAV Policlinico "A. Gemelli", Dipartimento di Tossicologia Clinica Università Cattolica del Sacro Cuore, +39 06 305 4343.

- España/ Spain: Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Madrid, +34 91 562 04 20 (solo emergencias toxicológicas), Información en español (24h/365 días).

- Nederland/ Netherlands (NVIC): Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen, +31 (0)88 755 8000.

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 3 H301 Toxic if swallowed.

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**

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.

(Contd. on page 2)

UE

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.12.2021

Version number 9

Revision: 02.12.2021

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

(Contd. of page 1)

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P264 Wash thoroughly after handling.
 P273 Avoid release to the environment.
 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

Molar mass: 391,31 g/mol

- Dangerous components:

CAS: 174899-82-2 EC number: 700-235-5	1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide Acute Tox. 3, H301; Aquatic Chronic 3, H412	99%
CAS: 616-47-7 EINECS: 210-484-7 Index number: 613-035-00-7	1-methylimidazole Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Corr. 1B, H314; Eye Dam. 1, H318	≤0,3%
CAS: 90076-65-6 ELINCS: 415-300-0 Index number: 616-124-00-9	lithium bis(trifluoromethylsulfonyl)imide; 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide lithium salt Acute Tox. 3, H301; Acute Tox. 3, H311; STOT RE 2, H373; Skin Corr. 1B, H314; Aquatic Chronic 3, H412	≤0,3%

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 product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.12.2021

Version number 9

Revision: 02.12.2021

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

(Contd. of page 2)

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.

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

8.1 Control parameters

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

- Ingredients with limit values that require monitoring at the workplace:

CAS: 90076-65-6 lithium bis(trifluoromethylsulfonyl)imide

OEL (Sweden)	Short-term value: 0,02 mg/m ³ som Li; inhalerbar fraktion
--------------	---

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.

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

Appearance:

Form:	Fluid
Color:	Colorless
Odor:	Not determined.
Odor threshold:	Not determined.
- pH-value:	Not determined

- Change in condition

Melting point/freezing point:	-16 °C
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.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.12.2021

Version number 9

Revision: 02.12.2021

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

(Contd. of page 3)

- Explosion limits:	
. Lower:	Not determined.
. Upper:	Not determined.
- Vapour pressure at 300 °C:	0,072 hPa
- Density at 20 °C:	
. Bulk density:	1,52 g/cm ³
. 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.
. VOC (EC)	0,00 %

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.

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:
ATE (Acute Toxicity Estimates)

Oral	LD50	300 mg/kg (rat)
Dermal	LD50	57143–68085 mg/kg

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

Oral	LD50	300 mg/kg (rat)
------	------	-----------------

- 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.

Additional toxicological information:
- 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.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.12.2021

Version number 9

Revision: 02.12.2021

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

(Contd. of page 4)

Ecotoxicological 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.

Danger to drinking water if even small quantities leak into the ground.

Harmful to 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**

HP6 Acute Toxicity

HP14 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

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**
Label6.1 Toxic substances.
6.1**14.4 Packing group**

ADR/RID/ADN, IMDG, IATA

III

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Hazard identification number (Kemler code):

Warning: Toxic substances.

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)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.12.2021

Version number 9

Revision: 02.12.2021

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

(Contd. of page 5)

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 2810 TOXIC LIQUID, ORGANIC, N.O.S. (1-ETHYL-3-METHYLMIDAZOLIUM BIS(TRIFLUOROMETHANESULFONYL)IMIDE), 6.1, III

SECTION 15: Regulatory information

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

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.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

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.

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

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

15.2 Chemical safety assessment: For this product, no chemical safety assessment has 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.

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: Regulatory affairs department

Contact:

Email: 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

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.12.2021

Version number 9

Revision: 02.12.2021

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

(Contd. of page 6)

GHS: Globally Harmonised System of Classification and Labelling 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 – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

-UE-