

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

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Printing date 23.12.2021

Version number 3

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

<u>1.1 Product identifier</u>

Trade name: LiFSI:Emim FSI 2:3 (mol.)

Article number: E268

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 professionals24/7), +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: GiftinformationscentralenBox 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 Universita 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. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Repr. 2 H361 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

2.2 Label elements

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

Hazard pictograms



Signal word Danger Hazard-determining components of labelling: 1-Ethyl-3-methylimidazolium bis(fluorosulfonyl)imide lithium bis(fluorosulfonyl)imide

Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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Trade name: LiFSI:Emim FSI 2:3 (mol.)

H361 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label). P405 Store locked up.

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

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

- Description:

Mixture of substances listed below with nonhazardous additions. Mixture: consisting of the following components.

- Dangerous components:				
		>60–≤95%		
EC number: 825-567-9	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319			
		>25–≤40%		
EC number: 686-526-7	Repr. 2, H361; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315			
- Additional information: For the wording of the listed hazard phrases refer to section 16.				

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.

- . 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: 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:

Dilute with plenty of water. 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.

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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See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Open and handle receptacle with care.

. Information about fire - and explosion protection: Keep respiratory protective device available.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

. 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 skin.

Avoid contact with the eyes and skin. **. Respiratory protection:** Not required.

. Respiratory protection.

. 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 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:



Tightly sealed goggles

. Body protection: Use protective suit.

9.1 Information on basic physical an	d chemical properties	
 General Information 		
. Appearance:		
Form:	Fluid	
Color:	Colorless to light yellow	
. Odor:	Not determined.	
. Odor threshold:	Not determined.	
- pH-value:	Not determined	
- Change in condition		
. Melting point/freezing point:	Undetermined.	
. Initial boiling point and boiling ra	ange: Undetermined.	
- Flash point:	Not applicable.	
- Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
- Auto-ignition temperature:	Product is not selfigniting.	
- Explosive properties:	Product does not present an explosion hazard.	

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- Explosion limits:	
. Lower:	Not determined.
. Upper:	Not determined.
- Vapour pressure at 25 °C:	0,2 hPa
- Density at 20 °C:	1,575 g/cm ³
. Bulk density:	1.328 kg/m ³
. Relative density	Not determined.
. Vapour density	Not determined.
. Evaporation rate	Not determined.
- Solubility in / Miscibility with	
. water:	Fully miscible.
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity:	
. Dynamic:	Not determined.
. Kinematic:	Not determined.
- Solvent content:	
. 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

<u>11.1 Information on toxicological effects</u>

Acute toxicity Harmful if swallowed.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 500 mg/kg

CAS: 235789-75-0 1-Ethyl-3-methylimidazolium bis(fluorosulfonyl)imide

Oral LD50 500 mg/kg (ATE)

CAS: 171611-11-3 lithium bis(fluorosulfonyl)imide

Oral LD50 500 mg/kg (ATE)

- Primary irritant effect:

. Skin corrosion/irritation

Causes skin irritation.

. Serious eye damage/irritation

Causes serious eye damage.

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

- 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

Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

- 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.

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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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

HP4 Irritant - skin irritation and eye damage

HP6 Acute Toxicity

HP10 Toxic for reproduction

Uncleaned packaging:

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

. Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
<u>14.1 UN-Number</u> ADR/RID/ADN, ADN, IMDG, IATA	not regulated
14.2 UN proper shipping name ADR/RID/ADN, ADN, IMDG, IATA	not regulated
14.3 Transport hazard class(es)	
ADR/RID/ADN, ADN, IMDG, IATA Class	not regulated
<u>14.4 Packing group</u> ADR/RID/ADN, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Ma IBC Code	arpol and the Not applicable.
UN "Model Regulation":	not regulated

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 product is classified and labelled according to the CLP regulation. Hazard pictograms



Signal word Danger Hazard-determining components of labelling: 1-Ethyl-3-methylimidazolium bis(fluorosulfonyl)imide

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	lithium bis(fluorosulfonyl)imide					
	Hazard statements					
	H302 Harmful if swallowed.					
	H315 Causes skin irritation.					
	H318 Causes serious eye damage.					
	H361 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.					
	Precautionary statements P280 Wear protective gloves/protective clothing/eve protection/face protection/hearing protection.					
	P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue					
	rinsing.					
	P310 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 None of the ingredients is listed.					
	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.					
	REGULATION (EU) 2019/1148					
	Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))					
	None of the ingredients is listed.					
	Annex II - REPORTABLE EXPLOSIVES PRECURSORS					
	None of the ingredients is listed.					
	Regulation (EC) No 273/2004 on drug precursors					
	None of the ingredients is listed.					
	Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors					
	None of the ingredients is listed.					
	15.2 Chemical safety assessment: For this product, no chemical safety assessment has been performed.					
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	SECTION 16: Other information					

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** H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child. 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 relatif au transport international 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 ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) CAS: Chemical Abstracts Service (division of the American 6 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. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Repr. 2: Reproductive toxicity – Category 2