

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

Printing date 08.02.2021

Version number 4

Revision: 08.02.2021

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name: 1-Butyl-1-methylpyrrolidinium bis(fluorosulfonyl)imide 99,9%****Article number:** PYR0433A**CAS Number:**  
1057745-51-3**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 &amp; U.S.A)

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

**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**

GHS07

**Signal word** Warning**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements**

P280 Wear protective gloves.

P280 Wear eye protection / face 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.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

**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**

1057745-51-3 1-Butyl-1-methylpyrrolidinium bis(fluorosulfonyl)imide

**Molecular formula:** C9 H20 N2 S2 O4 F2

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**SECTION 4: First aid measures****4.1 Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.
- . **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. If symptoms persist, 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** Use individual protective gear.**6.2 Environmental precautions:** No special measures required.**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**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** In case of heat treatment, handle this product under an inert atmosphere.

- . **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:** Keep this product cool and dry.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Keep container tightly sealed.

Protect from heat and direct sunlight.

**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:** Not required.

**. Additional information:** The lists valid during the making were used as basis.

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**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.  
Avoid contact with the eyes and skin.

**. Respiratory protection:** Not required.

**. Protection of hands:**



Protective gloves

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:**



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:**

<b>Form:</b>	Fluid
<b>Color:</b>	Colorless
<b>. Odor:</b>	Not determined.
<b>. Odor threshold:</b>	Not determined.

**- pH-value:** Not determined.

**- Conductivity** :

**. at 20°C:** 5,25 mS/cm

**. at 25°C:** 6,19 mS/cm

**- Change in condition**

<b>. Melting point/freezing point:</b>	-17,7 °C
<b>. Initial boiling point and boiling range:</b>	Undetermined.
<b>- Flash point:</b>	Not applicable.
<b>- Flammability (solid, gas):</b>	Not applicable.
<b>. Decomposition temperature:</b>	Not determined.
<b>- Auto-ignition temperature:</b>	Not determined.
<b>- Explosive properties:</b>	Product does not present an explosion hazard.
<b>- Explosion limits:</b>	
<b>. Lower:</b>	Not determined.
<b>. Upper:</b>	Not determined.
<b>- Vapour pressure:</b>	Not determined.

**- Density at 20 °C:** 1,304 g/cm<sup>3</sup>

**. Bulk density:** 1.310 kg/m<sup>3</sup>

**. Relative density** Not determined.

**. Vapour density** Not determined.

**. Evaporation rate** Not determined.

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<b>- Solubility in / Miscibility with</b>	
. <b>water:</b>	Not miscible or difficult to mix.
<b>- Partition coefficient: n-octanol/water:</b>	Not determined.
<b>- Viscosity:</b>	
. <b>Dynamic at 20 °C:</b>	64,1 mPas
. <b>Kinematic:</b>	Not determined.
<b>9.2 Other information</b>	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:** Thermal decomposition in contact with the humidity of the air.**10.3 Possibility of hazardous reactions** In contact with water and heat, decomposition and formation of Hydrogen Fluoride (HF).**10.4 Conditions to avoid** In case of heat treatment, avoid handling this product in air.**10.5 Incompatible materials:** Strong oxidizer and strong base.**10.6 Hazardous decomposition products:** Hydrogen fluoride**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.**- Primary irritant effect:****. Skin corrosion/irritation**

Causes skin irritation.

**. Serious eye damage/irritation**

Causes serious eye irritation.

**- 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.**Additional ecological information:****General notes:** Not hazardous for water.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

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**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

**Uncleaned packaging:**

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

**SECTION 14: Transport information**

**14.1 UN-Number**

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

**14.4 Packing group**

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 Marpol and the**

**IBC Code** 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**

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** Substance is not 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**

Substance is not listed.

**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:** Regulatory affairs department

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**Contact:**

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**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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

\* **Data compared to the previous version altered.**

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