

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## 1-Ethyl-3-methylimidazolium tosylate

Version number: GHS 2.0

Date of compilation: 10.10.2023

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

#### 1.1 Product identifier

Identification of the substance	1-Ethyl-3-methylimidazolium tosylate
EC number	680-026-2
CAS number	328090-25-1
Reference number (ECHA)	02-2120963840-50-0000
Alternative name(s)	EMIM-TOS
Alternative number(s)	00120.3000

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Product and process oriented research and development
Uses advised against	Do not use for private purposes (household).
HS code	29332990.

#### 1.3 Details of the supplier of the safety data sheet

Proionic GmbH  
Parkring 18, Trakt H/1  
A-8074 Raaba-Grambach  
Austria

Telephone: +43 (0) 316 4009-4200  
e-mail: office@proionic.com  
Website: www.proionic.com

#### 1.4 Emergency telephone number

Emergency information service	Austria This number is only available during the following of- fice hours Mo-fr 8am-4pm (CET): +43 (0) 316/ 4009- 4200
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Official advisory body	Poisoning information center Austria: +43 (0) 1 406 43 43
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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Research chemical - research sample.  
Caution! Substance not yet fully tested.

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

Self-classification. All information refers to analogy circuits.

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

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For full text of abbreviations: see SECTION 16.

### Additional information

There are no available test data for this substance.

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word warning

- pictograms  
GHS07



- hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

- precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

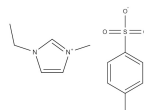
## 2.3 Other hazards

There is no additional information.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Name of substance	1-Ethyl-3-methylimidazolium tosylate
Identifiers	
CAS No	328090-25-1
EC No	680-026-2
Purity	97 – 99,9 %
Molecular formula	C <sub>13</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub> S
Molar mass	282,4 g/mol



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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water. If skin irritation occurs, consult a doctor.

##### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Consult a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

See SECTION 2.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

##### Unsuitable extinguishing media

Water jet

#### 5.2

##### Hazardous combustion products

May produce toxic fumes  
Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulphur oxides (SO<sub>x</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Remove persons to safety.

##### For emergency responders

Wear protective equipment and avoid any contact (skin, eyes).

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

##### Advice on how to contain a spill

Covering of drains, Take up mechanically

##### Advice on how to clean up a spill

Take up mechanically. Use isopropanol/ethanol to clean surfaces.

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Recommendations

Contaminated surfaces must not be cleaned with compressed air due to the possible formation of aerosols. Use only in well-ventilated areas. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground/bond container and receiving equipment.

##### - specific notes/details

Avoid contact with skin and eyes. Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

##### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep cool. Protect from sunlight. Keep container in a well-ventilated place.

##### Managing of associated risks

##### - explosive atmospheres

Removal of dust deposits.

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### - packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

See SECTION 1.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

These information are not available.

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

##### - hand protection

In case of re-use of the gloves - clean it thoroughly before take off and air it well.

##### - other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Body protection

Protective clothing against liquid chemicals.

#### Respiratory protection

Respiratory protection not required.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	solid (solidified melt)
Colour	beige
Odour	characteristic
Melting point/freezing point	34 °C

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<b>Boiling point or initial boiling point and boiling range</b>	not determined
<b>Flammability (solid, gas)</b>	non-combustible
<b>Lower and upper explosion limit</b>	not determined
<b>Flash point</b>	not applicable
<b>Auto-ignition temperature</b>	not determined
<b>Decomposition temperature</b>	not relevant
<b>pH (value)</b>	

**Solubility(ies)** not determined

<b>Water solubility</b>	miscible in any proportion
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### Partition coefficient

<b>Partition coefficient n-octanol/water (log value)</b>	this information is not available
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<b>Vapour pressure</b>	not determined
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### Density and/or relative density

<b>Density</b>	1,23 g/cm <sup>3</sup> at 20 °C
<b>Relative vapour density</b>	information on this property is not available

<b>Particle characteristics</b>	no data available
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<b>Information with regard to physical hazard classes</b>	hazard classes acc. to GHS (physical hazards): not relevant
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### Other safety characteristics

<b>Miscibility</b>	Completely miscible with water.
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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### 10.2 Chemical stability

Chemically stable.

#### 10.4 Conditions to avoid

Please keep away from acids.

#### Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

#### 10.5 Incompatible materials

Not known

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Research chemical - research sample.

#### Classification according to GHS (1272/2008/EC, CLP)

Self-classification.

Substance not yet fully tested. No data available.

#### Acute toxicity

No data available.

#### Skin corrosion/irritation

No data available.

Causes skin irritation.

#### Serious eye damage/eye irritation

No data available. Causes serious eye irritation.

#### Respiratory or skin sensitisation

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### Specific target organ toxicity - single exposure

No data available.

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### Specific target organ toxicity - repeated exposure

No data available.

### Aspiration hazard

No data available.

### 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

All information refers to analogy circuits.

#### Aquatic toxicity (acute)

No data available.

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Information on this property is not available.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Waste treatment-relevant information

Incineration. Residues and used material have to be disposed to an authorized waste treatment facility.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.



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### SECTION 14: Transport information

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|---|--|
| <b>14.1 UN number or ID number</b>                                  | Not required   |
| <b>14.2 UN proper shipping name</b>                                 | not relevant   |
| <b>14.3 Transport hazard class(es)</b>                              | None   |
| <b>14.4 Packing group</b>   | Not assigned   |
| <b>14.5 Environmental hazards</b>                                   | Non-environmentally hazardous acc. to the dangerous goods regulations        |
| <b>14.6 Special precautions for user</b>                            | Provisions for dangerous goods (ADR) should be complied within the premises. |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b> | The cargo is not intended to be carried in bulk.                             |

#### Information for each of the UN Model Regulations

**Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information**

Not assigned

**International Maritime Dangerous Goods Code (IMDG) - additional information**

Not assigned

**International Civil Aviation Organization (ICAO-IATA/DGR) - additional information**

Not assigned

### SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Regulations should not be applied.

##### **Additional information**

Substance is listed in the following national inventories:

TCSI (Taiwan)

VNECI (Vietnam)

C&L Inventory (Europe)

#### **15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance.

### SECTION 16: Other information

#### **Abbreviations and acronyms**

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Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HS	Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

### Classification procedure

Self-classification.

All information refers to analogy circuits.

### Liste der einschlägigen Sätze

Code	Text
H315	Causes skin irritation.
H319	Causes serious eye irritation.

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### Disclaimer

The data contained in this safety data sheet are based on the current knowledge and experience of proionic GmbH and do not purport to be all inclusive. The safety data sheet shall be used only as a guide. The data do not describe the products properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose, except as mentioned, be deduced from the data contained in this safety data sheet. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

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