

according to Regulation (EC) No 1907/2006 1-Ethyl-3-methylimidazolium hydrogen sulfate

Revision Date: 5/13/2025

Version: 3

# 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product name	1-Ethyl-3-methylimidazolium hydrogen sulfate
Product code	IL-0091
CAS	412009-61-1
EC-Number	679-296-4
REACH No.	A registration number is not available for this
	substance as the substance or its uses are
	exempted from registration, the annual tonnage
	does not require a registration or the registration
	is envisaged for a later registration deadline.
1.2 Relevant identified uses of	the substance or mixture and uses advised
against	
Identified uses	Laboratory chemicals, Manufacture of substances
1.3 Details of the supplier of the	ne safety data sheet
Supplier	IoLiTec
	Ionic Liquids Technologies GmbH
	Im Zukunftspark 9
	D – 74076 Heilbronn
	Germany
Telephone	+49 (0)7131-89839-0
Fax	+49 (0)7131-89839-109
Email	msds@iolitec.de
1.4 Emergency telephone num	ber
Emergency telephone	+49 (0)151-41255671



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# 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification (REGULTATION (EC) No 1272/2008) Skin Corrosion (Category 1B) Eye Damage (Category 1)

2.2 Label elements Labelling (REGULATION (EC) No 1272/2008)

Signal word	Danger
H-phrases	
H314	Causes severe skin burn and eye damage.
P-phrases	
P260	Do not breathe mist/ spray.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/
	eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT
	induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off
	immediately all contaminated clothing.
	Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water

**Pictogram** 



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		for several minutes. Remove contact lenses,
		if present and easy to do. Continue rinsing.
P304 + P340		IF INHALED: Remove person to fresh air and
		keep comfortable for breathing.
P310		Immediately call a POISON CENTER/ doctor.
P405		Store locked up.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# **3 COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

1-Ethyl-3-methylimidazolium hydrogen sulfate

**CAS:** 412009-61-1

#### **EC-Number :** 679-296-4

Contents

Classification



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>98%

Skin Corr. 1B, Eye Damage 1

# 4 FIRST AID MEASURES

# 4.1 Description of first aid measures

#### General

Contaminated clothing should be removed and washed before being reused.

#### Inhalation

Move the exposed person to fresh air at once. If respiratory problems, provide artificial respiration/oxygen.

#### Ingestion

Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.

## Skin

Immediately take off all contaminated clothing. Wash the skin immediately with soap and water.

# Eyes

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

# **5 FIRE FIGHTING MEASURES**

# 5.1 Extinguishing media

Use: Water spray, fog or mist. Carbon dioxides (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc.



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#### 5.2. Special hazards arising from the substance or mixture

Avoid water in straight hose stream, will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Fire causes formation of toxic gases.

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

# 6 ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing and avoid inhalation of vapor, skin or eye contact.

#### 6.2 Environmental precautions

Avoid washing into water courses. Avoid contaminating public drains or water supply.

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

Avoid contact with skin or inhalation of spillage, dust or vapor. Avoid dust formation.

Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

#### 6.4 Reference to other sections

For disposal see section 13.

# 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Do not use in confined spaces without adequate ventilation and/or respirator.

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

Store at moderate temperatures in dry, well-ventilated area.

Storage class (TRGS 510): LGK 8B

#### 7.3 Specific end use(s)



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Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### 8.1 Control parameters

Ingredients with workplace control parameters

#### 8.2 Exposure controls

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Body Protection**

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

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



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# 9 PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Liquid
b)	Color	Yellow to orange
c)	Odor/taste	No characteristic odor.
d)	Melting point/freezing point	-23 °C
<b>e)</b>	Initial boiling point	no data available
<b>f)</b>	Flammability	no data available
g)	Upper/lower explosive limits	no data available
<b>h)</b>	Flash point	no data available
i)	Autoignition temperature	no data available
j)	Decomposition temperature	no data available
<b>k)</b>	рН	no data available
I)	Viscosity, kinematic	1110 mm <sup>2</sup> /s
m)	Water solubility	no data available
<b>n)</b>	Partition coefficient	no data available
<b>o)</b>	Vapor pressure	no data available
<b>p)</b>	Density	1.36 g/cm <sup>3</sup>
<b>q)</b>	Relative vapor density	no data available
<b>r)</b>	Particle characteristics	not relevant
s)	Explosive properties	not relevant
<b>t)</b>	Oxidizing properties	not relevant
9.2 Of	ther safety information	
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No data available



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# **10 STABILITY AND REACTIVITY**

#### 10.1 Reactivity

No data available

#### **10.2 Chemical stability**

No particular stability concerns.

#### **10.3 Possibility of hazardous reactions**

Reacts strongly with bases.

#### **10.4 Conditions to avoid**

Avoid contact to strong oxidizers and bases.

#### 10.5 Incompatible materials

Strong oxidizing agents and bases.

#### **10.6 Hazardous decomposition products**

High temperatures generate: Corrosive gases/ vapor/ fumes of: Carbon dioxide (CO<sub>2</sub>).

Carbon monoxide (CO). Nitrous gases (NOx). Sulfur oxide (SOx).

# **11 TOXICOLOGICAL INFORMATION**

#### 11.1 Information on hazard classes

#### Acute toxicity

No data available

Skin corrosion/irritation

Skin Corr. Cat. 1B

#### Serious eye damage/eye irritation

Eye Damage Cat. 1

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

Carcinogenicity



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No data available

**Reproductive toxicity** 

No data available

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

#### Potential health effects

Inhalation No data available.

Ingestion No data available.

Skin Causes severe skin burn.

Eyes Causes eye damage.

# Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# 11.2 Information on other hazards

# **Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU)2018/605 at levels of 0.1% or higher.

# **Additional Information**

RTECS: Not available.



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# **12 ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

No data available.

#### 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available

#### **12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU)2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

# **13 DISPOSAL CONSIDERATIONS**

#### **13.1 Waste treatment methods**

Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical. Do not dispose in communal waste water.



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# 14 TRANSPORT INFORMATION

14.1 UN number		
UN3265		
14.2 UN proper shipping name		
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1-Ethyl-3-methylimidazolium		
hydrogen sulfate)		
14.3 Transport hazard class(es)		
ADR/RID: 8	IMDG: 8	IATA: 8
14.4 Packaging group		
ADR/RID: II	IMDG: II	IATA: II
14.5 Environmental hazards		
ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6 Special precautions for user		
No data available		

# **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.

Germany

# **15.2 Chemical safety assessment**

no data available

# **Country specific information**

WGK: 3	(Self-Classification)
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## **16 OTHER INFORMATION**

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