

Safety Data Sheet

1-Ethyl-3-methylimidazolium chloride

Revision Date: 7/26/2020

Date Issued: 2/16/2021

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

| | |
|----------------------------|---|
| Product name | 1-Ethyl-3-methylimidazolium chloride |
| Product code | IL-0093 |
| CAS | 65039-09-0 |
| REACH No. | 01-2120101676-61-0000 |
| Identified uses | Laboratory chemicals, Manufacture of substances |
| Supplier | IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D – 74076 Heilbronn Germany |
| Telephone | +49 (0)7131-89839-0 |
| Fax | +49 (0)7131-89839-109 |
| Emergency telephone | +49 (0)176-84850874 |
| Email | msds@iolitec.de |

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation (Category 2)

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Pictogram



Signal word

Warning

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Hazard statement(s)

H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Precautionary statement(s)

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

Supplemental Hazard Statements none

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified Not applicable.

Other Information

Unknown acute toxicity. 100% of the mixture consists of ingredient(s) of unknown toxicity

NFPA / HMIS



| | |
|----------------------------------|---|
| Health hazards | 1 |
| Flammability | 0 |
| Stability | 0 |
| Physical and chemical properties | - |

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient name | Contents | Health(Class) | Risk(R/No.) |
|--------------------------------------|----------|---------------|-------------|
| 1-Ethyl-3-methylimidazolium chloride | >95% | H302,H319 | |

4 FIRST AID MEASURES

General Contaminated clothing should be removed and washed before being reused.

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| | |
|-------------------|--|
| 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 | 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. |

5 FIRE FIGHTING MEASURES

| | |
|---|--|
| Extinguishing media | Use: Water spray, fog or mist. Carbon dioxides (CO ₂). Dry chemicals, sand, dolomite etc. |
| Special fire fighting procedures | 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. |
| Unusual fire & explosion hazards | Fire causes formation of toxic gases. |
| Protective measures in fire | Wear self-contained breathing apparatus as combustion may produce hazardous fumes. |

6 ACCIDENTAL RELEASE MEASURES

| | |
|---|--|
| Personal precautions during spill | Wear protective clothing and avoid inhalation of vapor, skin or eye contact. |
| Precautions to protect environment | Avoid washing into water courses. Avoid contaminating public drains or water supply. |

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Spill cleanup methods

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.

7 HANDLING AND STORAGE

Usage precautions

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

Storage precautions

Store at moderate temperatures in dry, well ventilated area.

Storage criteria

Chemical storage.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment

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.

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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).

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------|-------------------------------|
| Appearance | Solid. |
| Color | Colorless to slightly yellow. |
| Odor/taste | No characteristic odor. |

10 STABILITY AND REACTIVITY

| | |
|---|---|
| Stability | No particular stability concerns. |
| Conditions to avoid | Avoid contact to strong oxidizers and bases. |
| Hazardous Decomposition Products | High temperatures generate: Corrosive gases/ vapor/ fumes of: Carbon dioxide (CO ₂). Carbon monoxide (CO). Nitrous gases (NO _x). Hydrochloric acid (HCl). |

11 TOXICOLOGICAL INFORMATION

| | |
|--|------------------------|
| Acute toxicity | |
| LD50 (oral, rat): | >300 - < 2000 mg/kg bw |
| Skin corrosion/irritation | |
| LD50 (dermal, rat): | > 2000 mg/kg |
| Serious eye damage/eye irritation | |
| Eye irritation: | slightly irritating |

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Respiratory or skin sensitization

LLNA: not sensitising (NTP, 2010)

MEST: not sensitising (NTP, 2010)

Germ cell mutagenicity

No adverse effect observed (negative)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

NOAEL: > 3000 mg/kg bw

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin.

Eyes Causes serious eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Additional Information

RTECS: Not available

12 ECOLOGICAL INFORMATION

Toxicity

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea): > 100 mg/l - 48 h

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EC50 - Pseudokirchneriella subcapitata : 125 mg/l - 72 h

EC10 or NOEC for freshwater algae: 83.6 mg/L

Persistence and degradability

Biodegradability: Biotic/Aerobic

Result: < 10 % - Not readily biodegradable.

Bioaccumulative potential

no data available

Mobility in soil

no data available

Results of PBT and vPvB assessment

no data available

Other adverse effects

no data available

13 DISPOSAL CONSIDERATIONS

Disposal method

Contact specialist disposal companies.
Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

14 TRANSPORT INFORMATION

General

Not classified as dangerous for transport purposes.

UN No.

0

Road transport notes

Not classified as dangerous for road transport.

Rail transport notes

Not classified as dangerous for rail transport.

Sea transport notes

Not classified as dangerous for sea transport.

Air transport notes

Not classified as dangerous for air transport.

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15 REGULATORY INFORMATION

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

no data available

Chemical Safety Assessment

no data available

Country specific information

Germany WGK: 3 (Self-Classification)

16 OTHER INFORMATION

DISCLAIMER

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