

Safety Data Sheet

1-Ethylimidazole

Revision Date: 4/21/2016

Date Issued: 2/21/2018

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

| | |
|----------------------------|---|
| Product name | 1-Ethylimidazole |
| Product code | KI-0003 |
| CAS | 7098-07-9 |
| 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. |
| 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)

Acute toxicity (oral), Category 4, H302

Skin corrosion/irritation, Category 1C, H314

Hazardous to the aquatic environment: Chronic hazard, Category 3, H412

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Classification (67/548/EEC or 1999/45/EC)

Corrosive basic liquid

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



Signal word: **Danger**

Hazard statements

H-phrases

- H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements

P phrases

- P273: Avoid release to the environment.
P280: Wear protectic gloves/protective clothing/eye protection/face protection .
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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 or doctor/physician.

Labelling (67/548/EEC or 1999/45/EC)



C

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Risk phrases

R22: Harmful if swallowed.
 R34: Causes burns.
 R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient name | Contents | Health(Class) | Risk(R/No.) |
|------------------|----------|----------------|--|
| 1-Ethylimidazole | >98% | C GHS05, 07 | R 22, R 34 , R 52/53 H302, H314, H412 |

4 FIRST AID MEASURES

General Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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| | |
|-------------|--|
| Skin | Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician. |
| Eyes | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |

5 FIRE FIGHTING MEASURES

| | |
|---|--|
| Extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| 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 | Vapours may form explosive mixture with air. |
| Protective measures in fire | Wear self contained breathing apparatus for fire fighting if necessary. |

6 ACCIDENTAL RELEASE MEASURES

| | |
|---|--|
| Personal precautions during spill | Wear protective clothing and avoid inhalation of vapor, skin or eye contact. Ensure adequate ventilation. Evacuate personnel to safe areas. |
| Precautions to protect environment | Avoid washing into water courses. Avoid contaminating public drains or water supply. |
| Spill cleanup methods | Avoid contact with skin or inhalation of spillage, dust or vapor, Avoid dust formation. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. |

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7 HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle and store under inert gas.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment

Safety goggles. Chemical resistant gloves. Protective clothing.

Process control measures

Provide eyewash station and safety shower. Use engineering controls to reduce air contamination to permissible exposure levels.

Ventilation

Provide adequate general and local exhaust ventilation.

Respirators

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH(US) or CEN (EU).

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Other protection

Wear overalls and industrial shoes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------|--|
| Appearance | Liquid |
| Color | Colourless to yellow |
| pH | 11 at 100 g/l at 20 °C |
| Melting point | -27 °C |
| Boiling point | 104 °C at 35 hPa |
| Flash point | 91.5 °C - closed cup - ISO 2719 |
| Ignition temperature | 441 °C |
| Lower explosion limit | 2.1 %(V) |
| Upper explosion limit | 19.6 %(V) |
| Vapour pressure | 0.4 hPa at 20 °C 3 hPa at 50 °C |
| Density | 0,995 g/cm ³ at 20 °C |
| Water solubility | Soluble, in all proportions |
| Partition coefficient | <i>n</i> -Octanol/water: log Pow: < 0.3 at 23 °C |
| Viscosity, kinematic | 2.18 mm ² /s at 20 °C |

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10 STABILITY AND REACTIVITY

| | |
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| Stability | Stable under recommended storage conditions. |
| Conditions to avoid | Avoid contact to acids and strong oxidizers. |
| Hazardous | |
| Decomposition Products | High temperatures generate: Corrosive gases/vapor/fumes of: Carbon dioxide (CO ₂). Carbon monoxide (CO). Nitrous gases (NO _x). |

11 TOXICOLOGICAL INFORMATION

| | |
|---------------------------------|---|
| Acute toxicity | LD50 Oral - rat - 855 mg/kg |
| Irritation and corrosion | Skin - rabbit - Severe skin irritation Eyes - rabbit - Severe eye irritation |
| Sensitisation | no data available |
| Chronic exposure | 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. |
| Genotoxicity in vitro | negative |

12 ECOLOGICAL INFORMATION

| | |
|--|---|
| Elimination information (persistence and degradability) | Not readily biodegradable |
| Ecotoxicity effects | Toxic effects on fish and plankton and other aquatic invertebrates: (EC50 - Daphnia magna (Water flea) - 70,7 mg/l - 48 h Method: OECD Test Guideline 202) |
| Environmental hazards | Avoid washing into water courses. Avoid contaminating public drains or water supply. |

13 DISPOSAL CONSIDERATIONS

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Disposal method

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

14 TRANSPORT INFORMATION

UN No.

UN 3267

Road/Rail transport notes

UN-Number: 3267 Class: 8 Packing group: III
Proper shipping name: CORROSIVE LIQUID,
BASIC, ORGANIC, N.O.S.
(1-Ethyl-1H-imidazole)

Sea transport notes

UN-Number: 3267 Class: 8 Packing group: III
EMS-No: F-A, S-B
Proper shipping name: CORROSIVE LIQUID,
BASIC, ORGANIC, N.O.S. (1-Ethyl-1H-
imidazole)
Marine pollutant: No

Air transport notes

UN-Number: 3267 Class: 8 Packing group: III
Proper shipping name: Corrosive liquid, basic,
organic n.o.s. (1-Ethyl-1H-imidazole)

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

German Regulation VwVwS (Self-assessment):

Water hazard class 2 (WGK2): hazard to waters. Do not allow to enter waters, waste water, or soil.

15.2 Chemical Safety Assessment

no data available

16 OTHER INFORMATION

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