## Mettler-Toledo AG

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# **Safety Data Sheet**

according 1907/2006/EC, article 31

## LiCI 1M\_EtOH Electrolyte

## Identification of the substance / preparation and the company / undertaking

Use of the substance /

**preparation** Electrolyte for pH electrodes.

Chemical characterization Alcoholic solution.

Product code 51350088

**Supplier** Mettler-Toledo AG

**ANALYTICAL** 

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#### 2. Hazards identification

Highly flammable.



#### **Composition / information on ingredients**

**Hazardous components** Ethanol, (>90 %), [F, R-11], CAS No. 64-17-5,

EU No. 603-002-00-5, EINECS No. 200-578-6 Lithium chloride, (5 %), [Xn, R-22-36/38], CAS No. 7447-41-8, EINECS No. 231-212-3

#### 4. First aid measures

Inhalation Move to fresh air.

Wash off with soap and water. Skin contact

Eye contact Rinse thoroughly with plenty of water,

also under the eyelids. If eye irritation persists,

consult a specialist.

Ingestion Immediately give large quantities of water to drink.

Consult a physician for severe cases.

#### 5. Fire-fighting measures

Suitable extinguishing media Use dry chemical, CO<sub>2</sub>, water spray or alcohol foam.

Extinguishing media which must

not be used for safety reasons

None.

Specific hazards Solvents may produce excessive pressure under

fire-conditions. Sealed containers may rupture

and ignite.

Special protective equipment

for firefighters

Standard procedure for chemical fires.

#### Accidental release measures

Remove all sources of ignition. **Personal precautions** 

Ensure adequate ventilation.

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

Methods for cleaning up Flush with water.



#### 7. Handling and storage

**Handling** Keep away from open flames, hot surfaces and

sources of ignition. Vapours may form explosive

mixtures with air.

**Storage** Keep containers tightly closed in a cool,

well-ventilated place.

#### 8. Exposure controle / personal protection

Exposure limit(s) OEL value: 500 ppm (Ethanol) [Embryotoxic substance

(group C): there is no reason to fear poisoning of the fetus as long as the exposure is below the OEL value]

**Engineering measures** 

**to reduce exposure** Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of workday.

Personal protection equipment:

**Respiratory protection** In case of insufficient ventilation wear suitable

respiratory equipment.

Hand protection Gloves.

**Eye protection** Safety glasses.

**Skin and body protection** Long sleeved clothing.

#### 9. Physical and chemical properties

Form Liquid.

Colour Colourless. Clear.

Odour Alcoholic.

Physical and chemical properties pH: 7

Boiling point/range: ~80 °C Relative density: <1 g/ml Flash point <23 °C

Water solubility: completely miscible



#### 10. Stability and reactivity

**Stability** Stable under recommended storage conditions.

**Conditions to avoid** Vapours may form explosive mixture with air.

Materials to avoid Strong oxidizers, alkali metals and alkaline

earth metals may cause fires or explosions.

#### 11. Toxicological information

Acute toxicity Ethanol:

LC50/inhalation/1h/rat = 20000 ppm.

LD50/oral/rat = 7060 mg/kg. LD50/oral/mouse = 3450 mg/kg.

**Local effects** Inhalation of high vapour concentrations may

cause symptoms like headache, dizziness, tiredness,

nausea and vomiting.

**Long term toxicity** Chronic intensive skin contact may cause dermatitis.

Sensitization None.

#### 12. Ecological information

**Ecotoxicity** Wastewater from subsequent processing should be

given appropriate treatment in line with local regulations.

EC50/24h/daphnia = >10000 mg/l. LC50/48h/golden orfe = >10000 mg/l.

**Mobility** No data is available on the product itself.

**Bioaccumulation** Does not bioaccumulate.

#### 13. Disposal considerations

Waste from residues /

**unused products** Can be incinerated, when in compliance

with local regulations. European Waste catalogue

code (EWC-code): 14 06 03.

**Contaminated packaging** Offer rinsed packaging material to local recycling

facilities. Dispose of as unused product.



#### 14. Transport information

ADR/RID Proper shipping name: Ethanol solution

UN No.: 1170
Kemler code: 33
Class: 3
Packing group: II
ADR/RID-Labels: 3

IMO Proper shipping name: Ethanol solution

UN No.: 1170
Class: 3
Packing group: II
IMO-Labels: 3

EMS: F-E, S-D

IATA Proper shipping name: Ethanol solution

UN No.: 1170
Class: 3
Packing group: II
IATA-Labels: 3

#### 15. Regulatory information

**Regulatory information** The product is classified and labelled in accordance

with EC directives or respective national laws.

**Symbol(s)** F - Highly flammable.

**R-phrase(s)** R11: Highly flammable.

**S-phrase(s)** S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition -

No smoking.

S33: Take precautionary measures against

static discharges.



#### 16. Other information

For industrial application only. Recommended use

Text of R phrases mentioned

in section 2 Highly flammable. R11:

Harmful if swallowed. R22: R36/38: Irritating to eyes and skin.

End use

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. It is not to be considered a warranty or quality specification.

