







# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## LIQUIPOL

Electrolytic polishing liquid

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### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling:

#### **Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

#### **Precautions against fire and explosion:**

No special measures required.

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

#### **Storage:**

#### **Requirements to be met by storerooms and receptacles:**

No special requirements.

#### **Information about storage in one common storage facility:**

Not required.

#### **Further information for storage:**

Keep container tightly sealed.

### 7.3. Specific end use(s):

No further relevant information available.

## Section 8: Exposure controls/personal protection

### **Additional information about design of technical facilities:**

No further data; see item 7.

### 8.1 Control parameters:

#### **Ingredients with limit values that require monitoring at the workplace:**

##### **107-21-1 ethanediol**

WEL Short-term value: 104\*\* mg/m<sup>3</sup>, 40\*\* ppm

Long-term value: 10\* 52\*\* mg/m<sup>3</sup>, 20\*\* ppm

Sk \*particulate \*\*vapour

#### **Additional information:**

The lists valid during the making were used as basis.

### 8.2 Exposure controls:

#### **Exposure in the work place limited and controlled:**

#### **General protection and hygiene measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

#### **Personal protection equipment:**

#### **Respiratory protection:**

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Not necessary if room is well-ventilated.

### Eye protection:



Tightly sealed goggles.

### Hand protection:



Protective gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

### As protection from splashes gloves made of the following materials are suitable:

Natural rubber, NR

Fluorocarbon rubber (Viton)

Rubber gloves

Nitrile rubber, NBR

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

#### General information:

Form: Fluid  
Colour: Light yellow  
Odour: Recognizable

#### Important information about the protection of health, safety and the environment:

#### Property:

Melting point/melting range:

Not determined

Boiling point/boiling range:

197 °C

Flash point:

Not applicable.

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

410°C

Decomposition temperature:

Not determined.

Self-igniting:

Product is not selfigniting.

Danger of explosion:

Product does not present an explosion hazard.

Lower explosion limit (LEL):

3.2 Vol %

Upper explosion limit (UEL):

53.0 Vol %

Vapour pressure at 20 °C:

0.1 hPa

Density at 20 °C:

1.195 g/cm<sup>3</sup>

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Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Water solubility/miscibility:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
pH-Value at 20 °C:	< 0.5
Viscosity (dynamic):	Not determined.
Viscosity (kinematic):	Not determined.
Solvent content:	Organic: 0.0 %
	VOC (EC): 0 %
Solids content:	0 %

**9.2 Other information:** No further relevant information available.

### Section 10: Stability and reactivity

#### 10.1 – 10.3: **Reactivity; Chemical stability; Possibility of hazardous reactions:**

If stored and handled in accordance with specifications no hazardous reactions are known.

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

No further relevant information available.

#### 10.5 **Incompatible materials:**

No further relevant information available.

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

No dangerous decomposition products known.

### Section 11: Toxicological information

#### 11.1 **Information on toxicological effects:**

##### **Acute toxicity:**

##### **LD/LC<sub>50</sub> values relevant for classification:**

##### **107-21-1 ethanediol**

Oral	LD <sub>50</sub>	5840 mg/kg (rat)
Dermal	LD <sub>50</sub>	9530 mg/kg (rabbit)

##### **Primary irritant effect:**

**On the skin:** Caustic effect on skin and mucous membranes..

**On the eye:** Strong caustic effect.

**Sensitization:** No sensitizing effects known.

##### **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful  
Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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### Section 12: Ecological information

#### 12.1. **Toxicity:**

##### **Aquatic toxicity:**

No further relevant information available.

#### 12.2. **Persistence and degradability:**

No further relevant information available.

#### 12.3. **Bioaccumulative potential:**

No further relevant information available.

#### 12.4. **Mobility in soil:**

No further relevant information available.

##### **Additional ecological information:**

##### **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

#### 12.5. **Results of PBT and vPvB assessment:**

PBT: Not applicable.

vPvB: Not applicable.

#### 12.6. **Other adverse effects:**

No further relevant information available.

### Section 13: Disposal considerations

#### 13.1. **Waste treatment methods:**

##### **Material:**

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

##### **European waste catalogue:**

06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES

06 01 00 wastes from the manufacture, formulation, supply and use (MFSU) of acids

06 01 01 sulphuric acid and sulphurous acid

##### **Uncleaned packaging:**

Recommendation:

Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

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### Section 14: Transport information

**14.1. UN number:**

ADR, IMDG, IATA: UN2796

**14.2. UN proper shipping name:**

ADR: 2796 SULPHURIC ACID

IMDG, IATA: SULPHURIC ACID

**14.3. Transport hazard class(es):**

ADR, IMDG, IATA:



Class: 8 Corrosive substances

Label: 8

**14.4. Packing group:**

ADR, IMDG, IATA: II

**14.5. Environmental hazards:**

Marine pollutant: No

**14.6. Special precautions for user:**

Warning: Corrosive substances.

Danger code (Kemler): 80

EMS Number: F-A, S-B

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Non applicable.

**Transport/Additional information:**

**ADR:**

Excepted quantities (EQ): E2

Limited quantities (LQ): 1L

Transport category: 2

Tunnel restriction code: E

UN "Model Regulation": UN2796, SULPHURIC ACID, 8, II

### Section 15: Regulatory information

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

**Labelling according to Regulation (EC) No 1272/2008:**

The product is classified and labelled according to the CLP regulation.

**Hazard Pictograms:**



GHS05



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**Signal Word:** Danger

**Hazard statements:**

H314 Causes severe skin burns and eye damage.

**Precautionary statements:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe mist/vapours/spray.

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 for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 15.2 Chemical safety assessment:

A chemical safety assessment has not been carried out for this product.

## Section 16: Other information

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements. The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

**Relevant phrases:**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

R22 Harmful if swallowed.

R35 Causes severe burns.

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent