

EG-Material Safety Data

according to 91/155/EWG

Date: 01.03.1998/30.04.2006

Product Elektrolyt

GE 01

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1. Identification of the Preparation and Company

Trade name:

Elektrolyt GE 01

Company:

Kai Greising
Am Karlstollen 2
73312 Geislingen

Telephone: 07331/30 58-0

Telefax: 07331/981722

2. Composition/Information of Ingredients

Chemical Characterisation:

Aqueous solution of mineral acids and gold salts

Hazardous ingredients:

CAS-No.	Description	Weight-%	Symbols	R-Phrases
7664-93-9	Sulphuric acid	< 1 %	C	R 34
7664-38-2	Phosphoric acid	< 1 %	C	R 34

3. Hazardous Identification of the Preparation

No hazardous product as specified in Directive 67/548/EEC.

4. First Aid Measures

General Information:

Take off immediately all contaminated clothing

After Inhalation:

fresh air

Contact with skin:

wash immediately with plenty of water, take off immediately all contaminated clothing.

Contact with eyes:

rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing:

make victim drink plenty of water. Consult doctor if feeling unwell.

5. Fire-Fighting Measures

Suitable extinguishing media:

In adaption to materials stored in the immediate neighbourhood.

Special risks:

Non-combustible. Ambient fire may liberate hazardous vapours. The following may develop in event of fire: sulfur oxides.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without self-contained breathing apparatus.

Other information:

Prevent fire-fighting water from entering surface water or groundwater. Contain escaping vapours with water.

6. Accidental Release Measures

Personal precautionary measures:

Wear suitable protective clothing. Do not inhale vapours/aerosols.

Measures for environmental protection:

Do not allow to enter public sewers and watercourses.

Procedure for cleaning/absorption:

Contain leaking liquid in earth or sand and remove to a safe place when solid.

Rinse the rest with water.

Sweep or shovel up spillage and remove to a safe place

7. Handling and Storage

Directions for safe handling:

no special requirements are necessary.

Storage:

Tightly closed. At +15°C to +25°C.

Requirements for storage rooms and containers:

No metal containers.

8. Exposure Limits and Personal Protection

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protective equipment:

required when vapours/aerosols are generated.

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<i>Body protection:</i>	Wear suitable protective clothing		
<i>Eye protection:</i>	required		
<i>Hand protection:</i>	In full contact:	Glove material:	nitrile rubber
		Layer thickness:	0,11mm
		Breakthrough time:	> 480Min.
	In splash contact:	Glove material:	nitrile rubber
		Layer thickness:	0,11mm
		Breakthrough time:	> 480Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

Industrial hygiene: Change contaminated clothing and immerse in water. Apply skin-protective barrier cream. Wash hands and face after working with substance.

9. Physical and Chemical Properties

<i>Form:</i>	liquid			
<i>Colour:</i>	clear, colourless			
<i>Odour:</i>	nearly without odour			
<i>pH-value</i>	~ 1,3	at 20° C		
<i>Boiling point/range</i>	100	°C		DIN
<i>Flash point</i>	n.a.	°C		DIN
<i>Density</i>	~1,00	g/cm ³	at 20° C	
<i>Solubility in water</i>	soluble		at 20° C	

10. Stability and Reactivity

<i>Conditions to be avoided</i>	Heating.
<i>Substances to be avoided:</i>	Strong alkalis / bases
<i>Hazardous decomposition product in the event of fire:</i>	sulfur oxides

11. Toxicological Information

Acute toxicity
LC₅₀ (inhalation, rat): 510 mg/m³/2 h (calculated on the pure substance).
LD₅₀ (oral, rat): 2140 mg/kg.

Further toxicological information

Data on the toxicity of this strongly diluted sulfuric acid are not available.

After skin contact: under certain circumstances repeated skin contact may cause dermatitis or may cause irritative symptoms.

After eye contact: intensive exposure may cause irritative symptoms.

Further data

The product should be handled with the care usual when dealing with chemicals.

12. Ecological Information

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Further ecologic data:

The following applies to sulfuric acid: biological effects: harmful effect on aquatic organisms.

Harmful effect due to pH shift. Toxic effect on fish and algae. Caustic even in diluted form.

Does not cause biological oxygen deficit. Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities. Neutralization possible in waste water treatment plants.

Daphnia toxicity: Daphnia magna EC₅₀: 29 mg/l/24 h (calculated on the pure substance).

No ecological problems are to be expected when the product is handled and used with due care and attention.

Elimination: Easily removable from water. Calcium precipitation

Behaviour in environmental fields by allowing weak concentrations into biological sewage works, disturbance of activated sludge is not to be expected.

Ecotoxic effects:

Further ecological information: WGK 1

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13. Disposal

Product:

Chemicals must be disposed of in compliance with the respective national regulations.

Packaging:

product packaging must be disposed of in compliance with the country-specific regulations.

Product :

Do not dispose of with household waste.

Waste code no: 060106

Inorganic acids, acid-mixture and picklings (acid)

14. Transport

Not hazardous under transport regulations

15. Regulatory Information

Labelling in accordance to EC Directives:

Symbol:

R-Phrases:

S-Phrases:

Special Description:

WGK 1 (Self classification)

16. Other information

The details in this safety data sheet are based on up to date information and serve to describe the product regarding any safety regulations to be met. These details give no assurance of characteristics.