

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Elektrolyt 1524-1000 und 1524-2000

Print date: 25.01.2012

Product code: 1524-x000

Page 1 of 6

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product identifier**

Elektrolyt 1524-1000 und 1524-2000

Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

For polishing chrome-cobalt alloys. Solution is ready for use.

Details of the supplier of the safety data sheet

Company name:	Renfert GmbH	
Street:	Untere Giesswiesen 2	
Place:	D-78247 Hilzingen	
Telephone:	+49 7731 8208-0	Telefax: +49 7731 8208-70
e-mail:	info@renfert.com	
Contact person:	Frau Andris	Telephone: +49 7731 8208-927
Internet:	www.renfert.com	

Emergency telephone: Vergiftungs-Zentrale Freiburg
+49 761 19 240

SECTION 2: Hazards identification**Classification of the substance or mixture**

Indications of danger : Harmful, Irritant
R-phrases:
Harmful if swallowed.
Irritating to eyes and skin.

Label elements

Danger symbols: Xn - Harmful



Xn - Harmful

Hazardous components which must be listed on the label

ethanediol, ethylene glycol

R phrases

22 Harmful if swallowed.
36/38 Irritating to eyes and skin.

S phrases

24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36 Wear suitable protective clothing.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Additional advice on labelling

The classification was carried out for tested properties according to the substance directive (67/548/EWG), annex VI, otherwise according to the calculation procedure described in the preparation directive (1999/45/EG).

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Elektrolyt 1524-1000 und 1524-2000

Print date: 25.01.2012

Product code: 1524-x000

Page 2 of 6

SECTION 3: Composition/information on ingredients**Mixtures****Chemical characterization**

Electrolyte solution

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
203-473-3	ethanediol, ethylene glycol	> 30 %
107-21-1	Xn R22	
603-027-00-1	Acute Tox. 4; H302	
231-639-5	sulphuric acid 96 %	< 15%
7664-93-9	C R35	
016-020-00-8	Skin Corr. 1A; H314	

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures**Description of first aid measures****General information**

Take off immediately all contaminated clothing.

Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

After inhalation

Provide fresh air.

Seek medical attention if problems persist.

After contact with skin

After contact with skin, wash immediately with: Water.

In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. Immediately get medical attention.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**

The product itself is not combustible. Extinguishing materials should be selected according to the surrounding area.

Extinguishing media which must not be used for safety reasons

High power water jet.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Elektrolyt 1524-1000 und 1524-2000

Print date: 25.01.2012

Product code: 1524-x000

Page 3 of 6

Special hazards arising from the substance or mixture

Can be released in case of fire: Sulfur oxides.

Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear personal protection equipment. Provide adequate ventilation.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Handle and open container with care. Avoid contact with skin and eyes. Wear personal protection equipment.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container.

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with: Alkalis (alkalis).

Further information on storage conditions

Protect against: moisture.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits (EH40)

CAS No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
7664-93-9	Sulphuric acid (mist)	-	1		TWA (8 h)	EU
		-	-		STEL (15 min)	EU

Exposure controls

Occupational exposure controls

refer to chapter 7. No further action is necessary.

Protective and hygiene measures

Avoid contact with skin, eye and clothing.

Wash hands before breaks and at the end of work.

Keep away from food, drink and animal feedingstuffs.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Elektrolyt 1524-1000 und 1524-2000

Print date: 25.01.2012

Product code: 1524-x000

Page 4 of 6

Respiratory protection

Use only in well-ventilated areas.
Respiratory protection required in case of: aerosol or mist generation.

Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber). FKM (fluororubber).
Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications.

Eye protection

Tightly sealed safety glasses.

Environmental exposure controls

Do not empty into drains or the aquatic environment.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties**

Physical state: liquid
Colour: colourless
Odour: odourless

Test method

pH-Value (at 20 °C): 1

Changes in the physical state

Boiling point: 194 - 205 °C
Flash point: product has not been tested.

Explosive properties

not explosive.

Ignition temperature: No data available

Vapour pressure: < 0,1 hPa
(at 20 °C)

Density (at 20 °C): 1,19 - 1,22 g/cm³

Water solubility: miscible.

Viscosity / dynamic: No data available

Vapour density: No data available

SECTION 10: Stability and reactivity**Possibility of hazardous reactions**

Reactions with metals, with evolution of hydrogen.

Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapours.

Incompatible materials

Reacts with : Alkalis (alkalis).

Hazardous decomposition products

Sulfur oxides.

SECTION 11: Toxicological information**Information on toxicological effects**

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Elektrolyt 1524-1000 und 1524-2000

Print date: 25.01.2012

Product code: 1524-x000

Page 5 of 6

Acute toxicity

CAS No.	Chemical name				
	Exposure routes	Method	Dose	Species	h
107-21-1	ethanediol, ethylene glycol				
	Acute oral toxicity	LD50	5.890 - 13.400 mg/kg	Ratte	
7664-93-9	sulphuric acid 96 %				
	Acute oral toxicity	LD50	2140 mg/kg	Ratte	

Irritation and corrosivity

Irritant effect on the skin: irritant.

Irritant effect on the eye: irritant.

Sensitizing effects

no danger of sensitization.

Empirical data on effects on humans

Harmful if swallowed.

Irritating to eyes and skin.

Further information

Preparation not tested. The statement is derived from the properties of the components.

SECTION 12: Ecological information**Persistence and degradability**

There are no data available on the mixture itself.

Bioaccumulative potential

No indication of bio-accumulation potential.

Mobility in soil

There are no data available on the mixture itself.

Results of PBT and vPvB assessment

not applicable

Other adverse effects

Product is acid. The product needs to apply neutralizing agents before draining to wastewater treatment plants.

Further information

Do not empty into drains or the aquatic environment.

SECTION 13: Disposal considerations**Waste treatment methods****Advice on disposal**

Carry out a burning of hazardous waste according to official regulations.

Waste disposal number of waste from residues/unused products060101 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; sulphuric acid and sulphurous acid
Classified as hazardous waste.**Contaminated packaging**

Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Elektrolyt 1524-1000 und 1524-2000

Print date: 25.01.2012

Product code: 1524-x000

Page 6 of 6

UN number: 2796
UN proper shipping name: SULPHURIC ACID with not more than 51 % acid
Transport hazard class(es): 8
Packing group: II

Marine transport

UN number: 2796
UN proper shipping name: SULPHURIC ACID with not more than 51 % acid
Transport hazard class(es): 8
Packing group: II
Marine pollutant: no

Air transport

UN/ID number: 2796
UN proper shipping name: SULPHURIC ACID with not more than 51 % acid
Transport hazard class(es): 8
Packing group: II

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

1999/13/EC (VOC): not applicable

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

Additional information

M 004: Reizende Stoffe / Ätzende Stoffe (BGI 595)

Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Full text of R-phrases referred to under sections 2 and 3**

22 Harmful if swallowed.
35 Causes severe burns.
36/38 Irritating to eyes and skin.

Full text of H-Statements referred to under sections 2 and 3

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Reserved for industrial and professional use.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)