

Elektrolyt-Lösung Ethanol vergällt 80 % (V/V) Ethylenglycolmonobutylether 10 % (V/V) Perchlorsäure.. Revision date: 30.11.2022 Product code: 34156 Page 1 of 15 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Elektrolyt-Lösung Ethanol vergällt 80 % (V/V) Ethylenglycolmonobutylether 10 % (V/V) Perchlorsäure.. UFI: XFK1-S335-V008-M83T 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Laboratory chemicals Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Uses advised against Do not use for private purposes (household). 1.3. Details of the supplier of the safety data sheet Fa. Bernd Kraft GmbH Company name: Street: Stempelstraße 6 Place: D-47167 Duisbura Telephone: 0203/5194-0 Telefax: 0203/5194-290 e-mail: info@berndkraft.de Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117 produktsicherheit@berndkraft.de e-mail: Internet: www.berndkraft.de Responsible Department: Abteilung Produktsicherheit 1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: number: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted) **Further Information** inapplicable, this product is a mixture REACH registration number see section 3 **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture **GB CLP Regulation** Ox. Liq. 2; H272

Flam. Lig. 2; H225 Skin Corr. 1B; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Pictograms:

GB CLP Regulation

Hazard components for labelling

perchloric acid Signal word:





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Hazard statements H225 Highly flammable liquid and vapour. H272 May intensify fire: oxidiser. H314 Causes severe skin burns and eye damage. **Precautionary statements** P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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/doctor.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Chemical name					
	EC No	Index No	REACH No				
	Classification (GB CLP Regula	tion)					
64-17-5	ethanol			70 - < 75 %			
	200-578-6	603-002-00-5	01-2119457610-43				
	Flam. Liq. 2, Eye Irrit. 2; H225	H319					
7601-90-3	perchloric acid	10 - < 15 %					
	231-512-4	017-006-00-4					
	Flam. Liq. 3, Ox. Liq. 1, Skin C	orr. 1A; H226 H271 H314					
111-76-2	2-butoxyethanol			10 - < 15 %			
	203-905-0	603-014-00-0	01-2119475108-36				
	Acute Tox. 3, Acute Tox. 4, Ski	n Irrit. 2, Eye Irrit. 2; H331 H30	02 H315 H319				

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
64-17-5	200-578-6	ethanol	70 - < 75 %
	inhalation: LC 100	50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg Eye Irrit. 2; H319: >= 50 -	
7601-90-3	231-512-4	perchloric acid	10 - < 15 %
	Skin Corr. 1A;	00 - 2000 mg/kg Ox. Liq. 1; H271: >= 50 - 100 Ox. Liq. 2; H272: >= 0 - < 50 H314: >= 50 - 100 Skin Corr. 1B; H314: >= 10 - < 50 Skin Irrit. 2; H315: >= 1 - . 2; H319: >= 1 - < 10	
111-76-2	203-905-0	2-butoxyethanol	10 - < 15 %
	inhalation: ATI	E 3 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: ATE 1200 mg/kg	

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Do not breathe vapour/aerosol.

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Observe risk of aspiration if vomiting occurs. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures



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6.1. Personal precautions, protective equipment and emergency procedures

General advice

Vapours can form explosive mixtures with air.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take



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a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used. Store in a place accessible by authorized persons only.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

national regulations

Further information on storage conditions

Keep cool. Protect from sunlight.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol		Post shift



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DNEL/DMEL values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
64-17-5	ethanol						
Worker DNE	L, long-term	inhalation	systemic	950 mg/m³			
Worker DNE	L, long-term	dermal	systemic	343 mg/kg bw/day			
Consumer D	NEL, long-term	inhalation	systemic	114 mg/m³			
Consumer D	NEL, long-term	dermal	systemic	206 mg/kg bw/day			
Consumer D	NEL, long-term	oral	systemic	87 mg/kg bw/day			
7601-90-3	perchloric acid						
Consumer D	NEL, long-term	oral	systemic	0,0167 mg/kg bw/day			
111-76-2	2-butoxyethanol						
Consumer D	NEL, acute	oral	systemic	26,7 mg/kg bw/day			
Consumer D	NEL, long-term	oral	systemic	6,3 mg/kg bw/day			
Worker DNE	L, long-term	inhalation	systemic	98 mg/m³			
Worker DNE	L, acute	inhalation	systemic	1091 mg/m ³			
Worker DNE	L, acute	inhalation	local	246 mg/m ³			
Worker DNE	L, long-term	dermal	systemic	125 mg/kg bw/day			
Worker DNE	L, acute	dermal	systemic	89 mg/kg bw/day			
Consumer D	NEL, long-term	inhalation	systemic	59 mg/m³			
Consumer DNEL, acute		inhalation	systemic	426 mg/m ³			
Consumer D	NEL, acute	inhalation	local	147 mg/m³			
Consumer D	NEL, long-term	dermal	systemic	75 mg/kg bw/day			
Consumer D	NEL, acute	dermal	systemic	89 mg/kg bw/day			



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PNEC values

CAS No	Substance	
Environmen	tal compartment	Value
64-17-5	ethanol	
Freshwater		0,96 mg/l
Freshwater	(intermittent releases)	2,75 mg/l
Marine wate	r	0,79 mg/l
Freshwater	sediment	3,6 mg/kg
Marine sedi	ment	2,9 mg/kg
Secondary p	poisoning	380 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	580 mg/l
Soil		0,63 mg/kg
7601-90-3	perchloric acid	
Freshwater		0,021 mg/l
Freshwater	(intermittent releases)	147 mg/l
Marine wate	r	0,002 mg/l
Freshwater	sediment	4,67 mg/kg
Marine sedi	ment	0,467 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	8,2 mg/l
Soil		0,021 mg/kg
111-76-2	2-butoxyethanol	
Freshwater		8,8 mg/l
Freshwater	(intermittent releases)	26,4 mg/l
Marine wate	r	0,88 mg/l
Freshwater	sediment	34,6 mg/kg
Marine sedi	ment	3,46 mg/kg
Secondary p	poisoning	20 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	463 mg/l
Soil		2,33 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Face protection umbrella

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.



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Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

By long-term hand contact Trade name/designation KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation KCL 730 Camatril® Velours Suitable material: NBR (Nitrile rubber) 0,4 mm Wearing time with occasional contact (splashes): > 120 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Take off immediately all contaminated clothing and wash it before reuse.

Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour: Odour threshold:	Liquid colourless characteristic No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		>35 °C
boiling range:		
Flammability		
Solid/liquid:		No data available
Gas:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		<21 °C
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		No data available
Viscosity / kinematic:		No data available



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Water solubility: Solubility in other solvents No data available	No data available				
Dissolution rate:	No data available				
Partition coefficient n-octanol/water:	No data available				
Dispersion stability:	No data available				
Vapour pressure:	No data available				
Vapour pressure:	No data available				
Density:	No data available				
Relative density:	No data available				
Bulk density:	No data available				
Relative vapour density:	No data available				
Particle characteristics:	No data available				
9.2. Other information					
Information with regard to physical hazard classes	3				
Explosive properties					
Vapours are heavier than air, spread along floors	-				
Sustaining combustion:	No data available				
Self-ignition temperature					
Solid: Gas:	No data available No data available				
Oxidizing properties	NO GALA AVAIIADIE				
Oxidizing					
Other safety characteristics					
Evaporation rate:	No data available				
Solvent separation test:	No data available				
Solvent content:	No data available				
Solid content:	No data available				
Sublimation point:	No data available				
Softening point:	No data available				
Pour point:	No data available				
	No data available				
Viscosity / dynamic:	No data available				
Flow time:	No data available				
Further Information					
No data available					

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours may form explosive mixtures with air. Oxidizing

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures



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Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) 11869,4 mg/kg; ATE (inhalation vapour) 29,67 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
64-17-5	ethanol						
	oral	LD50 10 mg/kg	0470	Rat	Study report (1976)	OECD Guideline 401	
	inhalation (4 h) vapour	LC50 12 mg/l	24,7	Rat	Study report (1980)	OECD Guideline 403	
7601-90-3	perchloric acid						
	oral	LD50 20 2000 mg/kg	00 -	Rat	Study report (2003)	OECD Guideline 423	
111-76-2	2-butoxyethanol						
	oral	ATE 1200 mg	j/kg				
	dermal	LD50 > mg/kg	2000	Rat	Study report (1993)	OECD Guideline 402	
	inhalation vapour	ATE 3 mg/l					

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.



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Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

No data available Further information

There are no data available on the mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
64-17-5	ethanol								
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-00 9, 1975		
	Acute algae toxicity	ErC50 22000 mg/l	ca.	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	> 10000	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	other: DIN 38412 Teil 11		
	Algae toxicity	NOEC mg/l	5400	5 d	Skeletonema costatum	Environ Toxicol Chem 8(5):451-455. (1989	Study to determine the sensitivity of a		
	Crustacea toxicity	NOEC	2 mg/l	10 d	Ceriodaphnia dubia	Arch Environ Contam Toxicol 20(2):211-21	Follows the basic methodology for the th		
7601-90-3	perchloric acid								
	Acute fish toxicity	LC50 mg/l	1470	96 h	Lepomis macrochirus	Publication (2004)	EPA OPPTS 850.1075		
	Acute algae toxicity	ErC50 mg/l	> 435,7	72 h	Pseudokirchneriella subcapitata	Study report (1998)	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (2004)	OECD Guideline 202		
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	0,5 h	Activated sludge	Study report (1997)	ISO 8192		
111-76-2	2-butoxyethanol								
	Acute fish toxicity	LC50 mg/l	1474	96 h	Oncorhynchus mykiss	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 203		
	Acute algae toxicity	ErC50	911 mg/l	72 h	Pseudokirchneriella subcapitata	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 201		
	Acute crustacea toxicity	EC50 mg/l	1550	48 h	Daphnia magna	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 202		
	Fish toxicity	NOEC mg/l	> 100	21 d	Danio rerio	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 204		
	Crustacea toxicity	NOEC	100 mg/l	21 d	Daphnia magna	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 211		

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.



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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol	-0,77
111-76-2	2-butoxyethanol	0,81

BCF

CAS No	Chemical name	BCF	Species	Source
64-17-5	ethanol	1	Cyprinus carpio	Comparative Biochemi
7601-90-3	perchloric acid	> 0,12 - < 0,14	Danio rerio	Chemosphere 65 (2006

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Avoid release to the environment.

Further information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)				
<u>14.1. UN number or ID number:</u>	UN 3098			
14.2. UN proper shipping name:	OXIDIZING LIQUID, CORROSIVE, N.O.S. (perchloric acid)			
14.3. Transport hazard class(es):	5.1			
14.4. Packing group:	ll			
Hazard label:	5.1+8			
Classification code:	OC1			
Special Provisions:	274			
Limited quantity:	1 L			
Excepted quantity:	E2			
Transport category:	2			
Tunnel restriction code:	E			
Inland waterways transport (ADN)				
14.1. UN number or ID number:	UN 3098			



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14.3. Transport hazard class(es):	5.1			
14.4. Packing group:	II			
Hazard label:	5.1+8			
Classification code:	OC1			
Special Provisions:	274			
Limited quantity:	1 L			
Excepted quantity:	E2			
Marine transport (IMDG)				
14.1. UN number or ID number:	UN 3098			
14.2. UN proper shipping name:	OXIDIZING LIQUID, CO	ORROSIVE, N.O.S. (perchloric acid)		
14.3. Transport hazard class(es):	5.1			
14.4. Packing group:	II			
Hazard label:	5.1+8			
Special Provisions:	274			
Limited quantity:	1 L			
Excepted quantity:	E2			
EmS:	F-A, S-Q			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	UN 3098			
14.2. UN proper shipping name:	OXIDIZING LIQUID, CO	ORROSIVE, N.O.S. (perchloric acid)		
14.3. Transport hazard class(es):	5.1			
14.4. Packing group:	II			
Hazard label:	5.1+8			
Special Provisions:	A3 A803			
Limited quantity Passenger:	0.5 L			
Passenger LQ:	Y540			
Excepted quantity:	E2			
IATA-packing instructions - Passenger:		50		
IATA-max. quantity - Passenger:	1			
IATA-packing instructions - Cargo:		54		
IATA-max. quantity - Cargo:	5	L		
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regul	ations/legislation specif	ic for the substance or mixture		
EU regulatory information				
Restrictions on use (REACH, annex XVII):				
Entry 3, Entry 40, Entry 75				
Information according to 2012/18/EU (SEVESO III):	P8 OXIDISING LIQUID	S AND SOLIDS		
National regulatory information				
Water hazard class (D):	1 - slightly hazardous to water			
SECTION 16: Other information				

Changes

This data sheet contains changes from the previous version in section(s): 2,9,11,15.



Elektrolyt-Lösung Ethanol vergällt 80 % (V/V) Ethylenglycolmonobutylether 10 % (V/V)

Perchlorsäure..

Revision date: 30.11.2022

Product code: 34156

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Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Ox. Liq. 2; H272	On basis of test data
Flam. Liq. 2; H225	On basis of test data
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

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. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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