

Perchlorsäure etwa 1 mol/l in Wasser Spüllösung für die IC

according to Regulation (EC) No 1907/2006

Revision date: 06.05.2024

Product code: 33068

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

1.1. Product identifier

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UFI:

81KX-3248-M00T-XU3M

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

Company name:	AnalytiChem GmbH	
	ACD	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTF	ous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: Canada: +1 703-741-5970 (collect calls

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Ox. Liq. 2; H272 Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

Danger

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:



Hazard statements

H272	2
H290)

May intensify fire; oxidiser. May be corrosive to metals.



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H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
Precautionary statemen	ts	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P220	Keep away from clothing and other combustible materials.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P390	Absorb spillage to prevent material damage.	
2.3 Other hazards		

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Relevant ingredients

CAS No	Chemical name	Chemical name				
	EC No	EC No Index No REACH No				
	Classification (Regulation (Classification (Regulation (EC) No 1272/2008)				
7601-90-3	perchloric acid	perchloric acid				
	231-512-4 017-006-00-4					
	Flam. Liq. 3, Ox. Liq. 1, Skin Corr. 1A; H226 H271 H314					

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.	cific Conc. Limits, M-factors and ATE		
7601-90-3	231-512-4	perchloric acid	5 - < 10 %	
	oral: LD50 = 200 - 2000 mg/kg Ox. Liq. 1; H271: >= 50 - 100 Ox. Liq. 2; H272: >= 0 - < 50 Skin Corr. 1A; H314: >= 50 - 100 Skin Corr. 1B; H314: >= 10 - < 50 Skin Irrit. 2; H315: >= 1 - < 10 Eye Irrit. 2; H319: >= 1 - < 10			

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).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider

After inhalation

Provide fresh air. 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

Rinse immediately carefully and thoroughly with eye-bath or water.



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Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

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

Irritant corrosive Cough Dyspnoea Cardiac arrhythmias Risk of serious damage to eyes.

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

Non-combustible liquids Oxidizing In case of warming: Decomposition with: Danger of explosion Hazardous combustion products In case of fire may be liberated: Hydrogen chloride (HCI)

5.3. Advice for firefighters

Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Corrosive to metals.

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



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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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). Collect in closed and suitable containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol. Use extractor hood (laboratory).

Advice on protection against fire and explosion

Keep away from combustible material.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Further information on handling

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry. Keep away from combustible material. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Keep away from combustible material.

Further information on storage conditions

Unsuitable container/equipment material: Light metal, Metal Keep cool. Protect from sunlight. storage temperature: +5°C bis +30°C

7.3. Specific end use(s)



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Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance		-	
DNEL type		Exposure route	Effect	Value
7601-90-3	perchloric acid			
Consumer DNEL, long-term		oral		0,0167 mg/kg bw/day

PNEC values

CAS No	Substance	
Environment	al compartment	Value
7601-90-3	perchloric acid	
Freshwater		0,021 mg/l
Freshwater (intermittent releases)		147 mg/l
Marine water		0,002 mg/l
Freshwater sediment		4,67 mg/kg
Marine sediment		0,467 mg/kg
Micro-organisms in sewage treatment plants (STP)		8,2 mg/l
Soil		0,021 mg/kg

8.2. Exposure controls

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 720 Camapren® Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 720 Camapren® Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm Wearing time with occasional contact (splashes): > 480 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).



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Skin protection

Wear suitable protective clothing.

Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

The choice of body protection depends on the concentration and quantity of hazardous substances. The

chemical resistance of protective agents must be clarified with their suppliers.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Filtering device with filter or ventilator filtering device of type: B

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and	chemical properties	
Physical state:	Liquid	
Colour:	colourless	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and	Ł	No data available
boiling range:		
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value (at 20 °C):		acidic
Viscosity / kinematic:		No data available
Water solubility:		Soluble in: Water
Solubility in other solvents		
not determined		
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 (at 20 °C):		1,05487 g/cm ³
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	
Explosive properties		
No data available		
Sustaining combustion:		No data available
Self-ignition temperature		
Solid:		No data available
Gas:		No data available



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Revision date: 06.05.2024 Product code: 33068 Page 7 of 12 Oxidizing properties The product is: oxidising, Oxidising. Oxidizing liquids, Category 2 Other safety characteristics Evaporation rate: No data available No data available Solvent separation test: 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 No data available

Flow time:

Further Information

Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive Oxidizing

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Explosive reaction with: Hydrogen, Combustible substance Hydrocarbons, halogenated; Hydrogen halide Fluorine, Ether Dimethylsulfoxide (DMSO), Alcohols Nitriles, Hydrogen chloride (HCI) Acetic anhydride, Metal Ethanol, Methanol Dichloromethane. Phenol Phosphine, Phosphorus oxides (e.g. P2O5) Reducing agent, sulphuric acid iron and steel, coal Nitric acid. Acetic acid

Exothermic reaction with: Ketone, Alkali (lye)

Ignition hazard: Hydrogen iodide (HI), Aniline (Formaldehyde)

10.4. Conditions to avoid No data available

10.5. Incompatible materials

Rubber articles Metal Light metal Fat

10.6. Hazardous decomposition products In case of fire may be liberated:



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SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name						
	Exposure route	xposure route Dose Species Source Method					
7601-90-3	perchloric acid						
	oral	LD50 200 - 2000 mg/kg	Rat	Study report (2003)	OECD Guideline 423		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation. Serious eye damage/eye irritation: Causes serious eye irritation. Risk of serious damage to eyes.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: 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.

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Additional information on tests

Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

There are no data available on the mixture itself.



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Further information

Irritant corrosive Cough Dyspnoea Cardiac arrhythmias Risk of serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
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		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

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

BCF

CAS No	Chemical name	BCF	Species	Source
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 REACH, annex XIII.

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

Avoid release to the environment.

Further information

Do not allow to enter into surface water or drains.

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 hazardous waste incinerator facility under observation of official regulations.

Do not mix with other wastes.

Do not empty into drains.



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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)

14.1. UN number or ID number; UN 1802 14.2. UN proper shipping name; Perchloric acid 14.3. Transport hazard class(es); 8 14.4. Packing aroup; II Hazard label; 8+5.1 Classification code; CO1 Special Provisions; 522 Limited quantity; 1 Excepted quantity; 60 Transport category; 2 Hazard No; 85 Tunnel restriction code; E Inland waterways transport (ADN) UN 1802 14.1. UN number or ID number; UN 1802 14.2. Transport hazard class(es); 8 14.3. Transport hazard class(es); 8 14.4. Packing aroup; II Hazard label; 8+5.1 Classification code; CO1 Special Provisions; 522 Limited quantity; 1 Excepted quantity; 1 Lexcepted quantity; 1 Loroper shipping name; Perchloric acid 14.3. Transport hazard class(es); 8 14.4. Packing group; H Hazard label; <th></th> <th></th> <th></th>			
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Perchlorsäure etwa 1 mol/l in Wasser Spüllösung für die IC				
Revision date: 06.05.2024	Product code: 33068	Page 11 of 1		
IATA-max. quantity - Cargo:	30 L			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
14.6. Special precautions for user				
Warning: Oxidising substances.				
14.7. Maritime transport in bulk according to not applicable	5 mo instruments			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture			
EU regulatory information				
Restrictions on use (REACH, annex XVII):				
Entry 3, Entry 40				
Information according to Directive 2012/18/EU (SEVESO III):	P8 OXIDISING LIQUIDS AND SOLIDS			
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'ju	venile		
	work protection guideline' (94/33/EC).			
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): 1,9.			
Abbreviations and acronyms				
Ox. Liq: Oxidising liquid Met. Corr: Substance or mixture corros	ive to motole			
Flam. Liq: Flammable liquid	ive to metals			
Skin Corr: Skin corrosion				
Skin Irrit: Skin irritation				
Eye Irrit: Eye irritation				
	t des marchandises dangereuses par Route International Carriage of Dangerous Goods by Road)			
IMDG: International Maritime Code for				
IATA: International Air Transport Assoc	•			
-	Classification and Labelling of Chemicals			
EINECS: European Inventory of Existir				
ELINCS: European List of Notified Che	mical Substances			
CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%				
LD50: Lethal dose, 50%				
	tion mother lease with a to Demulation (EQ) No. 4070/0000 [OI D]			

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Ox. Liq. 2; H272	On basis of test data
Met. Corr. 1; H290	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

H226 H271 Flammable liquid and vapour.

May cause fire or explosion; strong oxidiser.



according to Regulation (EC) No 1907/2006

Perchlorsäure etwa 1 mol/l in Wasser Spüllösung für die IC

Revision date: 06.05.2024	Product code: 33068	Page 12 of 12
H272	May intensify fire; oxidiser.	
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
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. Provide appropriate information, instructions and training to users

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