

RCT CEMGEL KS

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

1.1. Product identifier

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1.2. Relevant identified uses of the substance/mixture and uses advised against

Use of the substance/mixture

Micro washout gel

1.3. Details of the supplier providing the safety data sheet

Company name: Reisacher Chemie & Technik GmbH
Street: Hermann-Krum-Str. 7
Place: 88319 Aitrach (Germany)
Phone: +49 7565 942687 - 0 Telefax: +49 7565 942687 - 90
E-Mail: info@rct-germany.de
Contact person: Dr. Rockermaier
E-mail: m.rockermaier@rct-germany.de
Homepage: www.rct-germany.de
Informing department: Laboratory

1.4. Emergency phone number:

+49 7565 942687 - 0

The emergency number is only available on weekdays (Mon-Fri) from 8:30 to 16:00 (CET).

SECTION 2: Possible hazards

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard Categories:

Corrosive to metals: Met. corr. 1

Skin corrosion/irritation: Skin cor. 1B

Serious eye damage/eye irritation: Eye damage 1

Specific target organ toxicity (single exposure): STOT inc. 3

Hazard statements:

May be corrosive to metals.

May be irritating to respiratory system.

Causes severe skin burns and eye damage.

2.2. Labeling elements:

Hazard-determining components of labeling: hydrochloric acid, hydrochloric acid (10-25%)

Signal word: Danger

Pictograms:



Hazard statements:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing gas/mist.

P280 Wear protective gloves and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove any contact lenses if possible. Continue to rinse.

P310 Immediately call POISON CENTER/Physician.

2.3. Other hazards

No hazards to be particularly mentioned. In any case, please observe the information in the Safety Data Sheet.

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SECTION 3: Composition/Information on ingredients

3.1. Mixtures

Chemical characterization

Acid in aqueous solution

Hazardous ingredients

EC-No.	Designation			Proportion
CAS-No.	EC-No.	Index-No.	REACH-No.	
	GHS Classification			
7647-01-0	Hydrochloric acid, hydrochloric acid...%			10 – 25%
	231-595-7		01-2119484862-27	
	Skin Corr. 1B, STOT SE 3; H314 H335			
77-92-9	2-Hydroxy-1,2,3-propane tricarboxylic acid			< 20 %
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			

Wording of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

Change soiled, soaked clothing.

After inhalation

Remove affected person to fresh air and keep warm and quiet.

In all cases of doubt or if symptoms are present, seek medical advice.

After contact with skin

In case of contact with skin, wash immediately with plenty of water.

In case of skin irritation, seek medical advice.

After contact with eyes

If product gets into eyes, immediately flush with plenty of water for at least 5 minutes with eyelids open. Then consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Seek medical attention immediately.

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

Causes burns. If swallowed, there is a risk of perforation of the esophagus and stomach (strong caustic effect).
stomach (strong corrosive effect).

Irritating to respiratory system.

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

Symptomatic treatment. Regulation of circulatory function, possibly shock treatment. Treat skin and mucous membranes with antihistaminics and corticosteroids. Follow up for pneumonia and pulmonary edema.

SECTION 5: Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Adapt extinguishing measures to the surroundings

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for fire fighting

Wear self-contained breathing apparatus and chemical protective suit.

In case of fire may be formed: Carbon monoxide, hydrogen chloride (HCl).

Knock down gases/vapors/mist with water spray. Collect contaminated extinguishing water separately.

Do not allow to enter drains or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not breathe gas/vapor/aerosol. Avoid contact with skin, eyes and clothing.

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Use personal protective equipment.

6.2. Environmental precautions

Do not allow to enter drains or water courses. Do not allow to enter subsoil/soil.

6.3. Methods and material for containment and cleaning up

Pick up mechanically.

Handle the picked up material according to section Disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protective equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Protective measures for safe handling

Precautions for safe handling

Ensure adequate ventilation. Do not breathe gas/vapor/aerosol. Open and handle container with care. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Information on general hygiene measures at the workplace

Change contaminated, soaked clothing. Wash hands before breaks and at the end of work. Do not eat or drink while working.

Precautions for safe handling:

Further information: See section 8.

7.2. Conditions for safe storage taking into account incompatibilities

Requirements for storage rooms and containers

Keep container tightly closed in a well-ventilated place.

Further information on storage conditions

Storage temperature: 5 - 35 °C

Storage class according to TRGS 510: 8B - Non-flammable corrosive substances (solid).

7.3. Specific end use

No identified use(s).

SECTION 8: Exposure controls/personal protection

8.1. Parameters to be monitored

Occupational exposure limits

CAS-No.	Designation	ppm	mg/m ³	F/m ³	Peak Ref.	Type
7647-01-0	Hydrogen chloride	2	3		2 (l)	
7631-86-9	Silicic acids, amorphous		4 E			
77-92-9	Citric acid		2 E		2 (l)	

DNEL /DMEL values

CAS-No.	Designation	Exposure route	Effect	Value
7647-01-0	Hydrochloric acid, hydrochloric acid ...%			10 – 25%
	Worker DNEL, long-term	inhalation	local	8 mg/m ³
	Worker DNEL, acute	inhalation	local	15 mg/m ³
	Consumer DNEL, long-term	inhalation	local	8 mg/m ³
	Consumer DNEL, acute	inhalation	local	15 mg/m ³

PNEC values

CAS-No.	Designation	Value
77-92-9	2-Hydroxy-1,2,3-propanetricarboxylic acid	
	Fresh water	0,44 mg/l
	Seawater	0,044 mg/l
	Freshwater sediment	34,6 mg/kg
	Marine sediment	3,46 mg/kg
	Microorganisms in sewage treatment plants	1000 mg/l

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Soil

33,1 mg/kg

8.2. Exposure controls and monitoring



Suitable technical control equipment

Provide adequate ventilation. Eye showers should be provided and their location conspicuously marked.
Use personal protective equipment.

Protective and hygienic measures

Do not inhale gas/vapor/aerosol. Open and handle container with care. Avoid contact with skin, eyes and clothing. Change contaminated, soaked clothing. Wash hands before breaks and at the end of work. Do not eat or drink while working.

Eye/face protection

Tight-fitting safety goggles. (DIN EN 166).

Hand protection

Suitable glove type Gauntlet gloves, acid-resistant. (EN ISO 374)

Suitable material:

- NBR (nitrile rubber): material thickness: 0.35 mm, breakthrough time: > 480 min.

The design of chemical protective gloves must be selected specifically for the workplace, depending on the concentration and quantity of hazardous substances.

Body protection

Only wear suitable, comfortable and clean protective clothing.

Respiratory protection

Wear respiratory protection if ventilation is inadequate.

Suitable respirator: Filtering half mask (DIN EN 149), Filter: E-P2

Environmental exposure controls and monitoring

Do not allow to enter drains or water courses. Do not allow to enter underground/soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:		paste
Color:		light yellow
Odor:		pungent
pH value:		1
Melting point:		not determined
Initial boiling point and boiling range:		100 °C
Flash point:		not applicable
Explosion hazard:		not explosive according to EU A.14
Lower explosion limit:		not applicable
Upper explosion limit:		not applicable
Ignition temperature:		not applicable
Decomposition temperature:		not determined
Oxidizing properties:		not oxidizing
Vapor pressure:		not determined
Density:	(at 21 °C):	1.2 g/cm ³
Solubility in water:		completely miscible
Solubility in other solvents:		not determined
Partition coefficient:		not determined
Dyn. viscosity:		not applicable
Vapor density:		not determined
Evaporation rate:		not applicable
Solvent content:		none

9.2. Other information

Solids content: not applicable

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SECTION 10: Stability and reactivity

10.1. Reactivity

Acid

10.2. Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Base, peroxides, oxidizing agents.

Corrosive to metals. - Formation of: Hydrogen. (Explosion hazard.)

10.4. Conditions to avoid

Heat. Frost. Protect from direct sunlight.

10.5. Incompatible materials

Keep away from: Oxidizing agents, strong; Reducing agents, strong; Peroxides; Alkalis (lyes); Amines; Light metals.

10.6. Hazardous decomposition products

Gases/vapors, irritant (hydrogen chloride (HCl)).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS-No.	Designation				
	Exposure Route	Dose	Species	Source	
77-92-9	2-Hydroxy-1,2,3-propanetricarboxylic acid				
	oral	LD50 5400 mg/kg	mouse	MSDS	

Irritant and corrosive effects

After eye contact: corrosive. Risk of serious damage to eyes.

After skin contact: corrosive.

If swallowed, there is a risk of perforation of the esophagus and stomach (strong corrosive effect).

Sensitizing effects

Not sensitizing.

Carcinogenic, mutagenic and toxic for reproduction effects

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

Specific target organ toxicity (single exposure)

May be irritating to the respiratory tract. (Hydrochloric acid; Hydrochloric acid ... %)

Specific target organ toxicity in case of repeated exposure

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

Aspiration hazard

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

Other test data

Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP].

There are no data for the preparation/mixture itself.

SECTION 12: Environmental information

12.1. Toxicity

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

CAS-No.	Designation					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
77-92-9	2-Hydroxy-1,2,3-propanetricarboxylic acid					
	Acute fish toxicity	LC50 440 mg/l	96 h	Leuciscus idus (golden orfe)	ECHA	OECD 203
	Acute crustacean toxicity	EC50 160 mg/l	48 h		GESTIS	

12.2. Persistence and degradability

Not persistent.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

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Partition coefficient n-octanol/water

CAS-No.	Designation	Log Pow
77-92-9	2-Hydroxy-1,2,3- propanetricarboxylic acid	-1,72

12.4. Mobility in soil

No information available.

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

No information available.

12.7. Other adverse effects

The product is acid. Neutralization is usually required prior to discharge of effluent to wastewater treatment plant.

Further information

Classification of mixtures and assessment method used according to Regulation (EC) No. 1272/2008 [CLP] No data are available for the mixture. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the individual components (see section 3).

SECTION 13: Disposal considerations

13.1. Waste treatment procedures

Recommendation

Do not allow to enter drains or water courses. Do not allow to enter subsoil/soil.
Dispose of in accordance with official regulations.

Waste code product

060102 WASTES FROM ANORGANIC CHEMICAL PROCESSES; wastes from manufacture, preparation, distribution and use (MFSU) of acids; hydrochloric acid; hazardous waste.

Waste code uncleaned packaging

150110 PACKAGING WASTE, SUPPLIES, WIPERS, FILTER MATERIALS AND PROTECTIVE CLOTHING (A.N.G.); packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste.

Disposal of uncleaned packaging and recommended cleaning agents.

Wash off with plenty of water. Completely emptied packaging can be sent for recycling.

SECTION 14: Transport information

The product must be transported in accordance with ADR regulations for road transport, RID regulations for rail transport, IMDG regulations for sea transport, ICAO/IATA regulations for air transport.

Land transport (ADR/RID)

UN number	UN 1759
UN proper shipping name:	CORROSIVE SOLID, N.O.S. (Hydrochloric acid 10 - 25 %)
Transport hazard class:	8
Packing group:	II
Hazard label:	8
Classification Code:	C10
Special regulations:	274
Limited quantity (LQ):	1 kg
Exempted quantity:	E2
Transport category:	2
Hazard number:	80
Tunnel restriction code:	E

Inland waterway transport (ADN)

UN number	UN 1759
UN proper shipping name:	CORROSIVE SOLID, N.O.S. (Hydrochloric acid 10 - 25 %)
Transport hazard class:	8
Packing group:	II
Hazard label:	8
Classification Code:	C10
Special regulations:	274

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Limited quantity (LQ): 1 kg
 Exempted quantity: E2

Marine transport (IMDG)

UN number: UN 1759
 UN proper shipping name: CORROSIVE SOLID, N.O.S. (Hydrochloric acid 10 - 25 %)
 Transport hazard class: 8
 Packing group: II
 Hazard label: 8
 Marine pollutant: no
 Special regulations: 274
 Limited quantity (LQ): 1 kg
 Exempted quantity: E2
 EmS: F-A, S-B
 Separation group: acids

Air transport (ICAO)

UN number: UN 1759
 UN proper shipping name: CORROSIVE SOLID, N.O.S. (Hydrochloric acid 10 - 25 %)
 Transport hazard classes: 8
 Packing group: II
 Hazard label: 8
 Special provisions: A3 A803
 Limited Quantity (LQ) Passenger: 5 kg
 Passenger LQ: Y844
 Exempted quantity: E2
 IATA packing instruction - Passenger: 859
 IATA maximum quantity - Passenger: 15 kg
 IATA packing instruction - Cargo: 863
 IATA maximum quantity - Cargo: 50 kg

14.5. Environmental hazards

DANGEROUS FOR THE ENVIRONMENT: no

14.6. Special precautions for user

Corrosive to metals.
 Keep away from food, drink and animal feeding stuffs.

14.7. Bulk transport according to Annex II of the MARPOL Convention and according to the IBC Code

not applicable

SECTION 15: Legislation

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

EU regulations

Information on VOC Directive 2004/42/EC: VOC value: 0.0 g/L (0 %)

National regulations

Employment restriction: Observe employment restrictions for young people (§ 22 JArbSchG)
 Water hazard class: 1 - slightly hazardous to water
 Status: Classification of mixtures according to Annex 1, No. 5 AwSV

Additional information

Trade association information (BGI):
 213-070 "Acids and alkalis",
 213-080 "Occupational safety measures for activities involving hazardous substances".

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the following substances in this mixture:
 Hydrochloric acid; Hydrochloric acid ... %

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

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(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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

ATE: acute toxicity estimates

ECHA: european chemicals agency (<http://echa.europa.eu/information-on-chemicals>)

GESTIS: Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung
 (<http://dguv.de/ifa/GESTIS/GESTIS-Stoffdatenbank/index.jsp>)

MSDS:

The data of the hazardous ingredients were taken from the latest safety data sheet of the supplier.

Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP].

Classification	Classification method
Met. Corr. 1; H290	Based on test data
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
STOT SE 3; H335	Calculation method

Wording of H- and EUH-phrases (number and full text) from section 3

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes severe eye irritation.
H335	May cause respiratory irritation

Further information

The data of the hazardous ingredients were taken from the latest safety data sheet of the supplier. The information is based on our present knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship.