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Calcium standard solution 5 mg/l as calcium chloride in diluted hydrochloric acid standard solution				
Revision date: 24.11.2022	Product code: 220	72	Page 1 of 9	
SECTION 1: Identification of the s	SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1. Product identifier Calcium standard solution 5 mg/l as calcium chloride in diluted hydrochloric acid standard solution UFI: D04Y-M1E3-Q003-61F6				
 <u>1.2. Relevant identified uses of the substance or mixture and uses advised against</u> <u>Use of the substance/mixture</u> 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 1.3. Details of the supplier of the safe	, ,			
Company name: Street: Place:	Fa. Bernd Kraft GmbH Stempelstraße 6 D-47167 Duisburg			
Telephone: e-mail: Contact person: e-mail: Internet: Responsible Department:	0203/5194-0 info@berndkraft.de Abteilung Produktsicherheit produktsicherheit@berndkraft.de www.berndkraft.de Abteilung Produktsicherheit	Telefax: 0203/5194-290 Telephone: 0203/5194-107/117		
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMT	rous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: Canada: +1 703-741-5970 (collect calls		
Further Information A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.				
SECTION 2: Hazards identification				

2.1. Classification of the substance or mixture

GB CLP Regulation Met. Corr. 1; H290

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation	
Signal word:	Warning
Pictograms:	

Hazard statements H290

May be corrosive to metals.



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Precautionary statements

P234 Keep only in original packaging.	
P390 Absorb spillage to prevent material damage.	
P406 Store in a corrosion-resistant container with a r	resistant inner liner.

2.3. Other hazards No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Hazardous components

none (according to UK REACH Regulation)

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

No data available

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

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

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. 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



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5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Hydrogen chloride (HCI)

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet.

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

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 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

Handle and open container with care. Do not breathe vapour. Keep container tightly closed. Use personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.



Calcium standard solution	5 mg/l as calcium chloride in diluted hydrochloric acid stand solution	lard
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Advice on general occupational hygien Remove contaminated, saturated clo Draw up and observe skin protection Wash hands and face before breaks When using do not eat or drink.	thing immediately.	
Further information on handling Take off immediately all contaminated	d clothing and wash it before reuse.	
7.2. Conditions for safe storage, including	any incompatibilities	
Requirements for storage rooms and v Keep container tightly closed.	ressels	
Hints on joint storage No data available		
Further information on storage condition Store in a dry place. Unsuitable container/equipment mate		
7.3. Specific end use(s)		
Laboratory chemicals		
SECTION 8: Exposure controls/persor	nal protection	
8.1. Control parameters		
Additional advice on limit values		
based on anhydrous form		
8.2. Exposure controls		
Appropriate engineering controls Technical measures and the applicat equipment. Do not breathe vapour/aerosol. Individual protection measures, such as p	ion of suitable work processes have priority over personal protection	
Eye/face protection		
goggles		
Hand protection	. GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following 74):	
By long-term hand contact Trade name/designation: KCL 741 De Suitable material: NBR (Nitrile rubbe Wearing time with permanent contact	er) 0,11 mm	
By short-term hand contact Trade name/designation KCL 741 De Suitable material: NBR (Nitrile rubber Wearing time with occasional contact	r) 0,11 mm	

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.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Discharge into the environment must be avoided.

SECTION 9: 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		No data available
	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:		No data available
	Auto-ignition temperature:		No data available
	Decomposition temperature:		No data available
	pH-Value:		1,9
	Viscosity / kinematic:		No data available
	Water solubility:		No data available
	(at 20 °C)		
	Solubility in other solvents		
	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:		~1 g/cm³
	Relative density:		No data available
	Bulk density:		No data available
	Relative vapour density:		No data available
	Particle characteristics:		No data available
<u>9.</u>	2. Other information		
	Information with regard to physical haza	ard classes	
	Explosive properties		
	No data available		
	Sustaining combustion:		No data available

No data available No data available

Self-ignition temperature

Solid:

Gas:



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	solution	
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Oxidizing properties No data available		
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		
Corrosive to metals.		

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Unsuitable container/equipment material: Metal

10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

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.

Irritation and corrosivity

Based on available data, the classification criteria are not met. slightly irritant but not relevant for classification.

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.



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	solution	
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STOT-single exposure Based on available data, the classification crit	teria are not met.	
STOT-repeated exposure Based on available data, the classification crit	teria are not met.	
Aspiration hazard Based on available data, the classification crit	teria are not met.	
Information on likely routes of exposure There are no data available on the mixture its	elf.	
Specific effects in experiment on an animal There are no data available on the mixture its	elf.	
Additional information on tests There are no data available on the mixture its	elf.	
Practical experience There are no data available on the mixture its	elf.	
11.2. Information on other hazards		
Endocrine disrupting properties There are no data available on the mixture its	elf.	
Other information There are no data available on the mixture its	elf.	
Further information There are no data available on the mixture its	elf.	
SECTION 12: Ecological information		
<u>12.1. Toxicity</u> There are no data available on the mixture its	elf.	
12.2. Persistence and degradability There are no data available on the mixture its	elf.	
12.3. Bioaccumulative potential There are no data available on the mixture its	elf.	
12.4. Mobility in soil		
There are no data available on the mixture its	elf.	
<u>12.5. Results of PBT and vPvB assessment</u>		

12.5. Results of PBT and vPvB assessment

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

There are no data available on the mixture itself.

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.

There are no data available on the mixture itself.

12.7. Other adverse effects

Discharge into the environment must be avoided.

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.



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Contaminated packaging

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)

Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 1789
14.2. UN proper shipping name:	HYDROCHLORIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	Ш
Hazard label:	8
Classification code:	C1
Special Provisions:	520
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E
	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1789
14.2. UN proper shipping name:	HYDROCHLORIC ACID
<u>14.3. Transport hazard class(es):</u>	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C1
Special Provisions:	520
Limited quantity:	5 L
Excepted quantity:	E1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1789
14.2. UN proper shipping name:	HYDROCHLORIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	111
Hazard label:	8
Special Provisions:	223
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-B
	Г-7 Х , С-В
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	
14.2. UN proper shipping name:	HYDROCHLORIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	
Hazard label:	8
Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
Passenger LQ:	Y841
Excepted quantity:	E1
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856



Calcium standard solution 5 mg/l as calcium chloride in diluted hydrochloric acid standard			
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IATA-max. quantity - Cargo:	60 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user No dangerous good in sense of this transport regulation. 14.7. Maritime transport in bulk according to IMO instruments No dangerous good in sense of this transport regulation.			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 75			
National regulatory information			
Water hazard class (D):	non-hazardous to water		
SECTION 16: Other information			
Changes			
This data sheet contains changes from	the previous version in section(s): 9.		
Classification for mixtures and used evaluation method according to GB CLP Regulation			

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data

Relevant H and EUH statements (number and full text)

May be corrosive to metals.

Further Information

H290

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.)