

Sodium molybdate solution 55 g/l acidified for determination of silicate with Polymetron Silkostat 9					
Revision date: 31.08.2022					
SECTION 1: Identification of the	substance/mixture and of the com	pany/undertaking			
1.1. Product identifier					
Sodium molybdate solution 55	g/l acidified for determination of silicate	with Polymetron Silkostat 9			
UFI:	RMGA-41G4-C00C-W181				
1.2. Relevant identified uses of the s	ubstance or mixture and uses advise	d against			
Use of the substance/mixture					
Laboratory chemicals					
•	nces as such or in preparations at indu	strial sites			
Professional uses: Public dom	ain (administration, education, entertain	ment, services, craftsmen)			
Uses advised against					
Do not use for private purpose	s (household).				
1.3. Details of the supplier of the saf	etv data sheet				
Company name:	Fa. Bernd Kraft GmbH				
Street:	Stempelstraße 6				
Place:	D-47167 Duisburg				
Telephone:	0203/5194-0	Telefax: 0203/5194-290			
e-mail:	info@berndkraft.de				
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117			
e-mail:	produktsicherheit@berndkraft.de				
Internet:	www.berndkraft.de				
Responsible Department:	Abteilung Produktsicherheit				
1.4. Emergency telephone		ous Goods] Incidents Spill, Leak, Fire,			
number:	•	REC Day or Night Within USA and Canada anada: +1 703-741-5970 (collect calls	a:		
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

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

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

sulphuric acid 7,3 %

Signal word:

Pictograms:





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Hazard statements

H290	May be corrosive to metals.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary statements

southoniary statement	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P390	Absorb spillage to prevent material damage.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Hazardous components

CAS No	Chemical name			Quantity		
	EC No Index No REACH No					
	Classification (GB CLP Regulation)					
7664-93-9	sulphuric acid	sulphuric acid				
	231-639-5 016-020-00-8 01-2119458838-20					
	Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1; H290 H314 H318					

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		
7664-93-9	231-639-5	sulphuric acid	5 - < 10 %
oral: LD50 = 2140 mg/kg Skin Corr. 1A; H314: >= 15 - 100 Skin Irrit. 2; H315: >= 5 - < 15 Eye Irrit. 2; H319: >= 5 - < 15			

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



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Take off immediately all contaminate In case of skin irritation, consult a pl	ed clothing and wash it before reuse. hysician.	
After contact with eyes In case of contact with eyes flush im apart and consult an ophthalmologis Remove contact lenses, if present a Protect uninjured eye.		
After ingestion Rinse mouth immediately and drink Call a physician immediately.	plenty of water.	
4.2. Most important symptoms and effect Irritant Circulatory collapse	ts, both acute and delayed	
4.3. Indication of any immediate medical No data available	attention and special treatment needed	
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Co-ordinate fire-fighting measures to	o the fire surroundings.	
Unsuitable extinguishing media no restriction		
5.2. Special hazards arising from the sub	stance or mixture	

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Sulphur oxides

5.3. Advice for firefighters

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

Additional information

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

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. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Corrosive to metals. Unsuitable container/equipment material: Metal, Light metal The product develops hydrogen in an aqueous solution in contact with metals.

Hints on joint storage

national regulations

Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)



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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
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
7664-93-9	sulphuric acid				
Worker DNEL,	Worker DNEL, long-term inhalation local 0,05 mg/m³				
Worker DNEL, acute inhalation local 0,1 mg/m³			0,1 mg/m ³		

PNEC values

CAS No	Substance			
Environmental	Environmental compartment			
7664-93-9	564-93-9 sulphuric acid			
Freshwater 0,003 mg/l				
Marine water		0 mg/l		
Freshwater sediment		0,002 mg/kg		
Marine sediment		0,002 mg/kg		
Micro-organisms in sewage treatment plants (STP)		8,8 mg/l		

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

Wear eye/face protection.

Hand protection

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 Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min



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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

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

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

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:		1,1
Viscosity / kinematic:		No data available
Water solubility:		completely miscible
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:		1,08848 g/cm ³
Relative density:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
Particle characteristics:		No data available
2. Other information		

9.2. Other information

Information with regard to physical hazard classes



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Explosive properties						
No data available						
Sustaining combustion:	No data available					
Self-ignition temperature						
Solid:	No data available					
Gas:	No data available					
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

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Water Alkali metals Ammonia (NH3) Alkali (lye) Alkaline earth metal Acids metals

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Cellulose Metal

The product develops hydrogen in an aqueous solution in contact with metals.

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



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

Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met. Following ingestion Gastric perforation Irritating to respiratory system.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
7664-93-9	sulphuric acid					
		LD50 mg/kg	2140		1969 Sep-Oct; 30(5):	The study was performed as part of a ser

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

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 preparation/mixture itself.

Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

Additional information on tests

There are no data available on the preparation/mixture itself.

Practical experience

There are no data available on the preparation/mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the preparation/mixture itself.

Other information

There are no data available on the preparation/mixture itself.

Further information

Symptoms may be delayed.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7664-93-9	sulphuric acid						
	Acute algae toxicity	ErC50 mg/l	> 100		Desmodesmus subspicatus	Study report (2009)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (2009)	OECD Guideline 202
	Fish toxicity	NOEC mg/l	0,025	65 d	Jordanella floridae	Water Research Vol. 11, 612 - 626, 1977	Groups of sexually mature flagfish

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.

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.

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.

Harmful effect due to pH shift.

Forms corrosive mixtures with water even if diluted.

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 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)

14.1. UN number or ID number:	UN 2796
14.2. UN proper shipping name:	Sulphuric acid
14.3. Transport hazard class(es):	8
14.4. Packing group:	Ш



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Hazard label:	8		
Classification code:	C1		
Limited quantity:	1 L		
Excepted quantity:	E2		
Transport category:	2		
Hazard No:	80		
Tunnel restriction code:	E		
Inland waterways transport (ADN)			
14.1. UN number or ID number:	UN 2796		
14.2. UN proper shipping name:	Sulphuric acid		
14.3. Transport hazard class(es):	8		
14.4. Packing group:	II		
Hazard label:	8		
Classification code:	C1		
Limited quantity:	1 L		
Excepted quantity:	E2		
Marine transport (IMDG)			
14.1. UN number or ID number:	UN 2796		
14.2. UN proper shipping name:	Sulphuric acid		
14.3. Transport hazard class(es):	8		
14.4. Packing group:	II		
Hazard label:	8		
Special Provisions:	-		
Limited quantity:	1L		
Excepted quantity:	E2		
EmS:	F-A, S-B		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 2796		
14.2. UN proper shipping name:	Sulphuric acid		
14.3. Transport hazard class(es):	8		
14.4. Packing group:	II		
Hazard label:	8		
Limited quantity Passenger:	0.5 L		
Passenger LQ:	Y840		
Excepted quantity:	E2		
IATA-packing instructions - Passenger:	851		
IATA-max. quantity - Passenger:	1 L		
IATA-packing instructions - Cargo:	855		
IATA-max. quantity - Cargo:	30 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture		
EU regulatory information			

EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to 2012/18/EU Not sub

Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):



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National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles accor work protection guideline' (94/33/EC).	rding to the 'juvenile		
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): 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
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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.

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