

Safety Data Sheet

according to UK REACH Regulation

Sanosil MC-A

Revision date: 30.06.2023

Product number: 40MC301000

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Sanosil MC-A

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

Highly alkaline membrane cleaner

Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Company name:	Sanosil AG	
Street:	Eichtalstrasse 49	
Place:	CH-8634 Hombrechtikon	
Telephone:	055 254 00 54	Telefax: 055 254 00 59
e-mail:	kundeninfo@sanosil.ch	
Contact person:	Peter Gömöri	
Internet:	www.sanosil.ch	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Acute Tox. 4; H302

Skin Corr. 1; H314

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

potassium hydroxide

Sodium hydroxide; caustic soda

alkyl glucoside

Signal word: Danger**Pictograms:****Hazard statements**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

Precautionary statements

P260	Do not breathe mist and vapours.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.

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P405 Store locked up.
P501 Return the contant/container to the point of sale or hand it over to a collection point for waste disposal.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (GB CLP Regulation)	
1310-58-3	potassium hydroxide	15 - < 30 %
	215-181-3	
	019-002-00-8	
	Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A; H290 H301 H314	
1310-73-2	Sodium hydroxide; caustic soda	5 - < 10 %
	215-185-5	
	011-002-00-6	
	01-2119457892-27	
	Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1; H290 H314 H318	
54549-24-5	alkyl glucoside	1 - < 2.5 %
	259-217-6	
	01-2119492545-29	
	Eye Dam. 1; H318	
26468-86-0	fatty alcohol ethoxylate	1 - < 2.5 %
	Eye Irrit. 2; 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	
1310-58-3	215-181-3	potassium hydroxide	15 - < 30 %
		oral: LD50 = 273 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0.5 - < 2 Eye Irrit. 2; H319: >= 0.5 - < 2	
1310-73-2	215-185-5	Sodium hydroxide; caustic soda	5 - < 10 %
		Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0.5 - < 2 Eye Irrit. 2; H319: >= 0.5 - < 2	
54549-24-5	259-217-6	alkyl glucoside	1 - < 2.5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
26468-86-0		fatty alcohol ethoxylate	1 - < 2.5 %
		dermal: LD50 = > 2000 - 5000 mg/kg; oral: LD50 = > 2000 - 5000 mg/kg	

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % amphoteric surfactants, < 5 % non-ionic surfactants, < 5 % phosphonates.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Move victim out of danger zone. In all cases of doubt, or when symptoms persist, seek medical advice. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Stomach perforation. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

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

No known symptoms to date. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.
Foam, Carbon dioxide (CO₂), Dry extinguishing powder, Water spray.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. 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**

Provide adequate ventilation. Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up**Other information**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, universal binding agents). After cleaning, flush away traces with water. Treat the recovered material as prescribed in the section on waste disposal. Dispose according to legislation.

6.4. Reference to other sections

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

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SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

After use replace the closing cap immediately. Avoid contact with skin and eyes. Wear personal protection equipment. Observe instructions for use. Use only in well-ventilated areas.

Advice on protection against fire and explosion

The product is not: Combustible.

The product is not: Explosive.

Advice on general occupational hygiene

Keep eye rinsing device ready. Avoid contact with skin and eyes. Avoid breathing vapours/spray. Change contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Apply skin care products after work.

Further information on handling

No special handling instructions are necessary.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep/Store only in original container. Keep container tightly closed. Protect from direct sunlight. Store in a cool dry place. Recommended storage temperature: at room temperature. Store in a place accessible by authorized persons only. Keep container in a well-ventilated place.

Hints on joint storage

Do not store together with: acids, Food and fodder

Further information on storage conditions

Minimum storage temperature: 5°C

Maximum storage temperature: 30°C

Storage class (TRGS 510):

8B (Non-combustible corrosive substances)

7.3. Specific end use(s)

Follow the instructions for use on the label.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
1310-73-2	Sodium hydroxide; caustic soda		
Worker DNEL, long-term	inhalation	local	1.0 mg/m ³
Worker DNEL, acute	inhalation	local	2.0 mg/m ³
Worker DNEL, acute	dermal	local	2 %
Consumer DNEL, long-term	inhalation	local	1.0 mg/m ³
Consumer DNEL, acute	inhalation	local	2.0 mg/m ³
Consumer DNEL, acute	dermal	local	2 %

PNEC values

CAS No	Substance	
Environmental compartment	Value	
1310-73-2	Sodium hydroxide; caustic soda	
Freshwater	6.4 mg/l	
Marine water	0.64 mg/l	
Freshwater sediment	23 mg/kg	
Marine sediment	2.3 mg/kg	
Soil	0.853 mg/kg	

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses. Eye-pieces out of plastic. EN 166

Hand protection

Recommended gloves for permanent contact:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material: $\geq 0,7$ mm

Breakthrough time:: ≤ 480 min

Observe the wear time limits as specified by the manufacturer.

Recommended gloves for splash protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: $\geq 0,4$ mm

Breakthrough time:: ≤ 30 min

Observe the wear time limits as specified by the manufacturer.

Skin protection

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

Usually no personal respiratory protection necessary. Avoid breathing vapours/spray.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid	
Colour:	light brown	
Odour:	characteristic	
Boiling point or initial boiling point and boiling range:		No data available
Flash point:		No data available
pH-Value:		13.0 - 14.0
Water solubility:		completely miscible
Density:		1.260 - 1.300 g/cm ³

9.2. Other information

none

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid.

10.4. Conditions to avoid

Protect against: Frost, Heat.

Protect from sunlight.

10.5. Incompatible materials

May be corrosive to metals.

10.6. Hazardous decomposition products

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1706.2 mg/kg

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1310-58-3	potassium hydroxide				
	oral	LD50 273 mg/kg	Rat	RTECS	
54549-24-5	alkyl glucoside				
	oral	LD50 > 2000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		
26468-86-0	fatty alcohol ethoxylate				
	oral	LD50 > 2000 - 5000 mg/kg			
	dermal	LD50 > 2000 - 5000 mg/kg			

Irritation and corrosivity

Causes severe skin burns and eye damage. (On basis of test data)

Causes serious eye damage. (On basis of test data)

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.

Additional information on tests

Classification according to Regulation (EC) No 1272/2008 [CLP] Calculation method. The product has not been tested.

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1310-58-3	potassium hydroxide					
	Acute fish toxicity	LC50 80 mg/l	96 h	Gambusia affinis	IUCLID	
1310-73-2	Sodium hydroxide; caustic soda					
	Acute fish toxicity	LC50 45.4 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50 40.4 mg/l	48 h	Aquatic invertebrates		
54549-24-5	alkyl glucoside					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Scenedesmus quadricauda		
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna (Big water flea)		
	Algae toxicity	NOEC > 100 mg/l	3 d	algae		
	Crustacea toxicity	NOEC > 1 - 10 mg/l	21 d	Daphnia pulex (water flea)		
26468-86-0	fatty alcohol ethoxylate					
	Acute fish toxicity	LC50 10 - 100 mg/l	96 h	Oncorhynchus mykiss		
	Acute algae toxicity	ErC50 > 1 - 10 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 > 1 - 10 mg/l	48 h	Daphnia magna		

12.2. Persistence and degradability

The product has not been tested. The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
26468-86-0	fatty alcohol ethoxylate			
	(OECD 301B)	>60%	28	
	Leicht biologisch abbaubar			

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

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

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

There are no data available on the mixture itself.

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Further information

Classification according to Regulation (EC) No 1272/2008 [CLP] Calculation method. The product has not been tested.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.
Delivery to an approved waste disposal company.

List of Wastes Code - used product

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packages and rinsed out with plenty of water can be disposed of as refuse. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 3266

14.2. UN proper shipping name:CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(potassium hydroxide / Sodium hydroxide; caustic soda)**14.3. Transport hazard class(es):**

8

14.4. Packing group:

II

Hazard label:

8



Classification code:

C5

Special Provisions:

274

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 3266

14.2. UN proper shipping name:CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(potassium hydroxide / Sodium hydroxide; caustic soda)**14.3. Transport hazard class(es):**

8

14.4. Packing group:

II

Hazard label:

8



Classification code:

C5

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Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 3266
14.2. UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
 (potassium hydroxide / Sodium hydroxide; caustic soda)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-A, S-B
 Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3266
14.2. UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
 (potassium hydroxide / Sodium hydroxide; caustic soda)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Special Provisions: A3 A803
 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 regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):
 Entry 3, Entry 75

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water
 Status: Classification of mixtures according to AwSV annex 1, no. 5 (D)

Additional information

Water hazard class (CH): Class B (Self-classification)

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15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Further Information

For industrial purposes only. Follow the instructions for use on the label. 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 data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)