

BriteGuard Surface ACTIVATOR

Revision date: 26.07.2017

Product code: BO5835000

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

BriteGuard Surface ACTIVATOR

Further trade names

BO 5831000, 1000 ml

BO 5835000, 5000 ml

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

Cleaning agent

1.3. Details of the supplier of the safety data sheet

Company name:	BOHLE AG	
Street:	Dieselstr. 10	
Place:	D-42781 Haan	
Telephone:	+49 2129 5568-0	Telefax: +49 2129 5568-282
e-mail:	info@bohle.de	
Contact person:	Klaus Nehren	Telephone: +49 2129 5568-276
e-mail:	MSDS@bohle.de	
Internet:	www.bohle-group.com	
Responsible Department:	Chemie	

1.4. Emergency telephone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

2.2. Label elements
Regulation (EC) No. 1272/2008
Hazard components for labelling

methanesulphonic acid

Sulphuric acid

Signal word: Danger

Pictograms:

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe vapour/aerosol.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

according to Regulation (EC) No 1907/2006

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P312 Call a POISON CENTER/doctor if you feel unwell.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
75-75-2	methanesulphonic acid			< 10 %
	200-898-6	607-145-00-4		
	Met. Corr. 1, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3; H290 H302 H312 H314 H318 H335			
7664-93-9	Sulphuric acid			< 10 %
	231-639-5	016-020-00-8		
	Skin Corr. 1A; H314			

Full text of H and EUH statements: see section 16.

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

< 5 % non-ionic surfactants.

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

Take off immediately all contaminated clothing.
Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.

After contact with skin

Wash with plenty of water.
If skin irritation persists, call a physician.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. If symptoms persist, call a physician.

After ingestion

Rinse mouth. Let water be drunk in little sips (dilution effect).
Do NOT induce vomiting. Call a doctor.
Do not allow a neutralisation agent to be drunk.

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

 Carbon dioxide (CO₂), Extinguishing powder, Water spray jet, alcohol resistant foam

according to Regulation (EC) No 1907/2006

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Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide, Carbon dioxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear personal protective equipment.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 13: Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide sufficient air exchange and/or exhaust in work rooms.
Provide eye shower and label its location conspicuously

Advice on protection against fire and explosion

Usual measures for fire prevention.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.
Protect against direct sunlight.
Always close containers tightly after the removal of product.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.
Do not store together with: Alkali (lye)

Further information on storage conditions

storage temperature: -5°C - 40°C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
75-75-2	methanesulphonic acid		
Worker DNEL, long-term	dermal	systemic	19,44 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	8,33 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	3,89 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	1,44 mg/m ³
7664-93-9	Sulphuric acid		
Worker DNEL, long-term	inhalation	systemic	0,05 mg/m ³

PNEC values

CAS No	Substance	
Environmental compartment	Value	
75-75-2	methanesulphonic acid	
Freshwater	0,012 mg/l	
Marine water	0,0012 mg/l	
Freshwater sediment	0,0251 mg/kg	
Micro-organisms in sewage treatment plants (STP)	100 mg/l	
Soil	0,00183 mg/kg	
7664-93-9	Sulphuric acid	
Freshwater	0,05 mg/l	
Marine water	0,00025 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

Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

Protective and hygiene measures

Provide adequate ventilation. Do not breathe vapour/aerosol.
 Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately.
 Keep away from food, drink and animal feedingstuffs. When using do not eat or drink.
 Do not smoke. Wash hands before breaks and at the end of workday.

Eye/face protection

safety glasses with side-shields conforming to EN166

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Recommended material: Butyl caoutchouc (butyl rubber), FKM (fluoro rubber), NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber)

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

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Skin protection

impervious clothing DIN EN 13034
Chemical resistant safety shoes

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Combination filtering device (EN 14387)
Recommended Filter type: A-P2

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: clear
Odour: characteristic

Test method

pH-Value (at 20 °C): 0,5

Changes in the physical state

Initial boiling point and boiling range: 100 °C
Flash point: >100 °C

Explosive properties

Not explosive

Ignition temperature: 600 °C

Auto-ignition temperature

not auto-flammable

Vapour pressure: 23 hPa
(at 20 °C)

Density (at 20 °C): 1,09 g/cm³

Water solubility: completely miscible

9.2. Other information**SECTION 10: Stability and reactivity****10.1. Reactivity**

None under normal processing.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Alkali (lye)

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
75-75-2	methanesulphonic acid				
	oral	LD50 >1000 mg/kg	Rat		
	dermal	ATE 1100 mg/kg			
7664-93-9	Sulphuric acid				
	oral	LD50 2140 mg/kg	Rat		

SECTION 12: Ecological information
12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
75-75-2	methanesulphonic acid					
	Acute fish toxicity	LC50 10-100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50 10-100 mg/l	48 h	Daphnia		
7664-93-9	Sulphuric acid					
	Acute fish toxicity	LC50 82 mg/l	96 h	Brachydanio rerio (zebra-fish)		

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

Further information

The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

 160303 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes containing hazardous substances
Classified as hazardous waste.

Waste disposal number of used product

 160303 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes containing hazardous substances
Classified as hazardous waste.

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Waste disposal number of contaminated packaging


150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances
Classified as hazardous waste.

Contaminated packaging


Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 3264
14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. methanesulphonic acid, Sulphuric acid
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8

 Classification code: C1
 Special Provisions: 274
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 80
 Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 3264
14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. methanesulphonic acid, Sulphuric acid
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8

 Classification code: C1
 Special Provisions: 274
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 3264
14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. methanesulphonic acid, Sulphuric acid
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8

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Special Provisions: 223, 274
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3264
14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. methanesulphonic acid, Sulphuric acid
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 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
 IATA-max. quantity - Cargo: 60 L

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: Sulphuric acid

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
 Water contaminating class (D): - - not water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information
Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

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