

**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**

&lt; 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 (CO<sub>2</sub>), 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 <sup>3</sup>	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 <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	1,44 mg/m <sup>3</sup>
7664-93-9	Sulphuric acid		
Worker DNEL, long-term	inhalation	systemic	0,05 mg/m <sup>3</sup>

**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:  
(at 20 °C) 23 hPa

Density (at 20 °C): 1,09 g/cm<sup>3</sup>

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.)*