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## ! SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Name of product** Black Streak Remover  
Art-Nr 1.0201.01188.00000

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Recommended intended purpose(s)**  
cleaning agent

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer/distributor** Yachticon A. Nagel GmbH  
Bürgermeister-Bombeck-Str. 1, D-22851 Norderstedt  
Phone +49 40 511 3780, Fax +49 40 51 74 37  
E-Mail yachticon@yachticon.de  
Internet www.yachticon.de

### Advice

Phone +49 40 511 37 80  
Fax +49 40 51 74 37  
E-mail (competent person):  
yachticon@yachticon.de

### 1.4. Emergency telephone number

**Emergency advice** Giftinformationszentrale Berlin  
Phone +49 (0)30 30686700  
Information in German.

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## ! SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Met. Corr. 1	H290	
Skin Corr. 1B	H314	

**! Hazard statements for physical hazards**  
H290 May be corrosive to metals.

**! Hazard statements for health hazards**  
H314 Causes severe skin burns and eye damage.

**! Additional hints**  
This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**



GHS05

**! Signal word**  
Danger

**! Hazard statements for physical hazards**  
H290 May be corrosive to metals.

**! Hazard statements for health hazards**  
H314 Causes severe skin burns and eye damage.

**Precautionary Statements**

**General**

P102 Keep out of reach of children.

**! Prevention**

P234 Keep only in original container.

P260 Do not breathe gas/vapours/spray.

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

**! Response**

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

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

P390 Absorb spillage to prevent material damage.

**! Storage**

P405 Store locked up.

**! Disposal**

P501 Dispose of contents/container to an approved waste handling.

**! Hazardous ingredients for labeling**

potassium-hydroxide, sodium metasilicate 5-hydrate

**Additional information**

**Remark**

Plastic eyeglass lenses can be damaged by the product; Avoid splashing the product / Remove immediately!

**2.3. Other hazards**

**Results of PBT and vPvB assessment**

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

## ! SECTION 3: Composition/ information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### ! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
111-76-2	203-905-0	butylglycol	< 2	Acute Tox. 4, H332 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / Eye Irrit. 2, H319 / Skin Irrit. 2, H315
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol	< 2	Eye Irrit. 2, H319
122-99-6	204-589-7	2-phenoxyethanol	< 5	Acute Tox. 4, H302 / Eye Irrit. 2, H319
1310-58-3	215-181-3	potassium-hydroxide	< 5	Acute Tox. 4, H302 / Skin Corr. 1A, H314
10213-79-3		sodium metasilicate 5-hydrate	< 5	Skin Corr. 1B, H314 / STOT SE 3, H335 / Met. Corr. 1, H290
15763-76-5		Cumene sulfonate (sodium salt)	< 2	Eye Irrit. 2, H319
164524-02-1	629-764-9	Cumene sulfonate (potassium salt)	< 2	Eye Irrit. 2, H319

#### REACH

CAS No	Name	REACH registration number
111-76-2	butylglycol	01-2119475108-36-XXXX
1310-58-3	potassium-hydroxide	01-2119487136-33-XXXX
15763-76-5	Cumene sulfonate (sodium salt)	01-2119489411-37-0000
164524-02-1	Cumene sulfonate (potassium salt)	01-2119489427-24-0000

#### ! Labelling for contents according to regulation (EC) No 648/2004, annex VII

less than 5 % anionic surfactants  
less than 5 % non-ionic surfactants

## ! SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### ! General information

Remove moisted clothing immediately.

In case of accident or if you feel unwell seek medical advice immediately (if possible show directions for use or safety data sheet).

#### ! In case of inhalation

Ensure of fresh air.

Seek medical treatment immediately.

#### ! In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.

#### ! In case of eye contact

Remove contact lenses.

Call for a doctor immediately.

Immediately rinse open eyes 10 to 15 minutes under running water.

#### ! In case of ingestion

Call for a doctor immediately.

Rinse out mouth and give plenty of water to drink.

Do NOT induce vomiting - risk of perforation!

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

**! Physician's information / possible symptoms**

Corrosive effect on eyes, skin and mucous membranes.

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

No information available.

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**! SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.

Dry fire-extinguishing substance

Carbon dioxide

Water spray jet

**5.2. Special hazards arising from the substance or mixture**

In the case of thermal decomposition formation of dangerous gases possible.

Upon thermal decomposition, formation of irritating gases and vapors possible.

The product itself does not burn.

**5.3. Advice for firefighters**

**! Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply ( isolated ).

Wear full protective clothing.

**! Additional information**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

High risk of slipping due to leakage / spillage of product.

Residues of fire and contaminated fire extinguishing water must not enter drains, surface water or groundwater.

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**! SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**! For non-emergency personnel**

Use personal protective clothing.

High risk of slipping due to leakage/spillage of product.

Avoid contact with clothing, skin and eyes.

**6.2. Environmental precautions**

Do not seep away runed out product into ground or body of water.

In the case of contamination of soil, waterways or drains, inform the competent authorities.

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

Send in suitable containers for recovery or disposal.

Take up with absorbent material (e.g. general-purpose binder).

After taking up the material dispose according to regulation.

**6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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Emergency telephone number: see section 1

## ! SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### ! Advice on safe handling

Avoid formation of aerosols.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Avoid contact with skin and eyes.

Avoid mixing with acids / acid products ABSOLUTELY!

Avoid contact with skin and eyes.

Do not breathe aerosols / vapors.

#### ! General protective measures

Do not inhale gases/vapours/aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

#### ! Hygiene measures

Clean skin thoroughly after working.

Cloths contaminated with product should not be kept in trouser pockets.

At work do not eat, drink and smoke.

Beschmutzte, getränkte Kleidung sofort ausziehen und vor der Wiederverwendung waschen.

### 7.2. Conditions for safe storage, including any incompatibilities

#### ! Requirements for storage rooms and vessels

Keep in closed original container.

Do not use metallic container.

#### ! Advice on storage compatibility

Do not store with acids.

Do not store together with food.

#### ! Further information on storage conditions

Keep container dry, tightly closed and store at cool and aired place.

**Storage group** 8B

### 7.3. Specific end use(s)

No information available.

## ! SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[ppm]	Remark
111-76-2	2-butoxyethanol	8 hours	98	20	skin
		Short-term	246	50	
112-34-5	2-(2-butoxyethoxy)ethanol	8 hours	67,5	10	
		Short-term	101,2	15	

**Black Streak Remover****DNEL-/PNEC-values****DNEL worker**

CAS No	Substance name	Value	Code	Remark
10213-79-3	sodium metasilicate 5-hydrate	1,49 mg/kg bw/day	DNEL long-term dermal (systemic)	
		6,22 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	
111-76-2	butylglycol	98 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	
		125 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		1091 mg/m <sup>3</sup>	DNEL acute inhalative (systemic)	
		246 mg/m <sup>3</sup>	DNEL acute inhalative (local)	
		125 mg/kg bw/day	DNEL long-term dermal (systemic)	
1310-58-3	potassium-hydroxide	1 mg/m <sup>3</sup>	DNEL long-term inhalative (local)	
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	175 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	
		2750 mg/kg bw/day	DNEL long-term dermal (systemic)	

**DNEL Consumer**

CAS No	Substance name	Value	Code	Remark
10213-79-3	sodium metasilicate 5-hydrate	0,74 mg/kg bw/day	DNEL long-term oral (repeated)	
		1,55 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	
		0,74 mg/kg bw/day	DNEL long-term dermal (systemic)	
111-76-2	butylglycol	89 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		147 mg/m <sup>3</sup>	DNEL acute inhalative (local)	
		6,3 mg/kg bw/day	DNEL long-term oral (repeated)	
		75 mg/kg bw/day	DNEL long-term dermal (systemic)	
		26,7 mg/kg bw/day	DNEL short-term oral (acute)	
		426 mg/m <sup>3</sup>	DNEL acute inhalative (systemic)	
		59 mg/m <sup>3</sup>	DNEL long-term dermal (systemic)	
1310-58-3	potassium-hydroxide	1 mg/m <sup>3</sup>	DNEL long-term inhalative (local)	

**PNEC**

CAS No	Substance name	Value	Code	Remark
10213-79-3	sodium metasilicate 5-hydrate	1 mg/l	PNEC aquatic, marine water	
		1000 mg/l	PNEC sewage treatment plant (STP)	
		7,5 mg/l	PNEC aquatic, freshwater	
111-76-2	butylglycol	463 mg/l	PNEC sewage treatment plant (STP)	

**Black Streak Remover****DNEL-/PNEC-values (continued)**

CAS No	Substance name	Value	Code	Remark
		8,8 mg/l	PNEC aquatic, freshwater	
		0,88 mg/l	PNEC aquatic, marine water	
		9,1 mg/l	PNEC aquatic, intermittent release	
		3,46 mg/kg dw	PNEC sediment, marine water	
		34,6 mg/kg dw	PNEC sediment, freshwater	
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	10000 mg/l	PNEC sewage treatment plant (STP)	
		0,24 mg/l	PNEC aquatic, freshwater	
		0,024 mg/l	PNEC aquatic, marine water	
		0,545 mg/kg	PNEC sediment, marine water	
		5,45 mg/kg dw	PNEC sediment, freshwater	
		0,071 mg/l	PNEC aquatic, intermittent release	

**8.2. Exposure controls****! Respiratory protection**

Breathing apparatus in the event of aerosol or mist formation.

Not necessary with adequate exhaust ventilation.

**Hand protection**

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitril, 0,4 mm, 60 min, 480 min. e.g. "Camatril Profi" (KCL GmbH, Email: Vertrieb@kcl.de)

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

**! Eye protection**

tightly fitting goggles

**! Other protection measures**

protective clothing

**Appropriate engineering controls**

Ensure good ventilation, where necessary use fume hood.

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

liquid

**Colour**

colourless, clear

**Odour**

odourless

**Odour threshold**

**Black Streak Remover**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>					alkaline
<b>boiling point</b>	ca. 100 °C				
<b>melting point</b>	ca. 0 °C				
<b>Flash point</b>	not determined				
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>					The product is not self-igniting.
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	not determined				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>		20 °C			multimiscible
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	not determined				

**Oxidising properties**

No information available.

**Explosive properties**

The product is not explosive.

**9.2. Other information**

Refer to technical data sheet.



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## ! SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable under normal conditions of use.

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Reactions with acids.

Reactions with light metals, with evolution of hydrogen.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

#### ! Substances to avoid

Acid

metal, base

### 10.6. Hazardous decomposition products

Hydrogen

Concerning possible decomposition products see section 5.

### Thermal decomposition

Remark No decomposition if used as directed.

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## ! SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
<b>Skin irritation</b>	corrosive			
<b>Eye irritation</b>	corrosive			
<b>Skin sensitization</b>	No known sensitization.			
<b>Sensitization respiratory system</b>	No known sensitization.			

#### ! Experiences made from practice

If swallowed: Severe burns of the mouth and throat and to the danger of perforation of the esophagus and stomach.

#### Additional information

The product should be handled with the care usual when dealing with chemicals.

Further hazardous properties can not be excluded.

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## ! SECTION 12: Ecological information

### 12.1. Toxicity

No information available.

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation not expected.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

#### General regulation

Ecological dates are not available.

Do not allow uncontrolled leakage of product into the environment.

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

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Recommendations for the product

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement. This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the Laender.

#### Recommendations for packaging

Totally emptied packaging may be treated as household waste.

Disposal according to official regulations.

#### Recommended cleansing agent

water

#### General information

Allocation of the waste number has to be done according to the EWC directive industry- and process-specific.

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## ! SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	1719	1719	1719
<b>14.2. UN proper shipping name</b>	CAUSTIC ALKALI LIQUID, N.O.S. (Kaliumhydroxid, Natriummetasilikat)	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide, sodium metasilicate)	Caustic alkali liquid, n.o.s. (potassium hydroxide, sodium metasilicate)

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	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.3. Transport hazard class(es)</b>	8	8	8
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards</b>	No	No	No
<b>14.6. Special precautions for user</b>	No information available.		
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available.		
<b>Land and inland navigation transport ADR/RID</b>			
Hazard label(s)	8		
tunnel restriction code	E		
Classification code	C5		

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## **! SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **National regulations**

**Water hazard class** 1 following AwSV (Germany)  
slightly hazardous to water

**Decree for case of interference/remarks** Quantity limits according to Hazardous Incident Ordinance must be observed.

### **15.2. Chemical Safety Assessment**

No information available.

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## **SECTION 16: Other information**

### **Training advice**

See the technical data sheet for more information.

### **Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

### **Further information**

The national special regulations have to be implemented by each user their own responsibility!  
The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please note: Our Material Safety Data Sheets have been prepared in accordance with EU directives, WITHOUT taking into account the specific national regulations for handling hazardous materials and chemicals.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.0

### **Sources of key data used**

Data sheets of the suppliers.

European Chemicals Agency (ECHA)

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**Black Streak Remover**

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Full text of the hazard phrases in section 2 and 3.  
Federal Environment Agency (water hazard classes)

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.