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

### 1.1. Product identifier

**Name of product** Mold and Mildew Remover  
Art-Nr 02.1030.00  
BAuA Nr. N-53093

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

**Recommended intended purpose(s)**

mold removal

**Effect of the substance / the mixture**

The product is used as a biocide.

### 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)30 192 40  
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
Met. Corr. 1	H290	
Skin Corr. 1B	H314	
Aquatic Chronic 3	H412	

**Hazard statements for physical hazards**

H290 May be corrosive to metals.

**Hazard statements for health hazards**

H314 Causes severe skin burns and eye damage.

**Hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

**Additional hints**

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

**Mold and Mildew Remover**

**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.

**Hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

**General**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

**Prevention**

P234 Keep only in original container.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

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/... .

P363 Wash contaminated clothing before reuse.

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**

sodium-hydroxide, Sodium hypochlorite solution, about 12% Cl active

**Supplemental Hazard information (EU)**

**Health properties**

Contact with acids liberates toxic gas.

### Additional information

#### Special rules on packaging

Touchable warning sign (EN/ISO 11683).  
Childproof closures (EN/862/ISO 8317).

#### Remark

Use biocides safely. Always read the label and product information before use.

#### 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]
1310-73-2	215-185-5	sodium-hydroxide	< 5	Skin Corr. 1A, H314
7681-52-9	231-668-3	Sodium hypochlorite solution, about 12% Cl active	< 10	Skin Corr. 1B, H314 / Aquatic Acute 1, H400 / Aquatic Chronic 2, H411 / Met. Corr. 1, H290 /

#### REACH

CAS No	Name	REACH registration number
1310-73-2	sodium-hydroxide	01-2119457892-27-XXXX
7681-52-9	Sodium hypochlorite solution, about 12% Cl active	01-2119488154-34-XXXX

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

Natriumhypochlorit

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove moisted clothing immediately.  
In the event of persistent symptoms receive medical treatment.

#### In case of inhalation

Ensure of fresh air.  
If intensive inhalation of fumes seek medical treatment immediately.  
In irritation or respiratory distress: As soon as practicable, inhale a Glucocorticoid-Aerosol repeatedly.

#### In case of skin contact

In case of contact with skin wash off immediately with plenty of water.  
Refer for medical treatment.

#### In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.  
Remove contact lenses.

**Mold and Mildew Remover**

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**In case of ingestion**

Do not induce vomiting.  
Seek medical advice immediately.  
Rinse out mouth and give plenty of water to drink.

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

No information available.

**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.  
Alcohol-resistant foam  
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.  
Hydrogen chloride (HCl)  
Chlorine (Cl<sub>2</sub>)  
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.  
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**

Ensure adequate ventilation.  
Avoid skin and eye contact.  
Use personal protective clothing.  
Use breathing apparatus if exposed to vapors / aerosol.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**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. sand, sawdust, general-purpose binder, kieselguhr).

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#### 6.4. Reference to other sections

Safe handling: see section 7  
Disposal: see section 13  
Personal protection equipment: see section 8  
Emergency telephone number: see section 1

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.  
Avoid inhalation of vapors.  
Take the usual precautions when handling with chemicals.  
Handle in accordance with good industrial hygiene and safety practice.

##### General protective measures

Avoid contact with eyes and skin  
Do not inhale gases/vapours/aerosols.

##### Hygiene measures

Clean skin thoroughly after working.  
At work do not eat, drink and smoke.  
Remove soiled or soaked clothing immediately.  
Use barrier skin cream.

##### Advice on protection against fire and explosion

No special measures necessary.

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

##### Requirements for storage rooms and vessels

Keep in closed original container.  
Only use containers that are approved specifically for the substance/product.

##### Advice on storage compatibility

Do not store with oxidizing agents.  
Keep at distance to reducing agents.  
Keep at distance to acids.

##### Further information on storage conditions

Protect from light.  
Store container at cool and aired place.

**Storage group** 8B

#### 7.3. Specific end use(s)

No information available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No information available.

#### 8.2. Exposure controls

##### Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus.

**Mold and Mildew Remover****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**

safety goggles with side protection

**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

**Odour**

like chlorine

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	> 9	20 °C	10 g/l	DIN 19261	in water
<b>boiling point</b>	ca. 100 °C				
<b>melting point</b>	ca. 0 °C				
<b>Flash point</b>					not applicable
<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>	ca. 23 hPa				

**Mold and Mildew Remover**

	Value	Temperature	at	Method	Remark
<b>Relative density</b>	ca. 1 g/cm <sup>3</sup>	20 °C			
<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**

No information available.

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

No information available.

**10.2. Chemical stability**

Stable under recommended storage conditions.

Stable under normal conditions of use.

**10.3. Possibility of hazardous reactions**

Reacts with strong oxidants.

Reacts with strong acids, under release of chlorine.

Reactions with reducing agents.

**10.4. Conditions to avoid**

Avoid heat and frost.

**10.5. Incompatible materials****Substances to avoid**

Acid

Oxidising agent

Reducing agent

**10.6. Hazardous decomposition products**

Concerning possible decomposition products see section 5.

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### 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>LD50 acute oral</b>	> 5000 mg/kg	rat		Data refer to sodium hypochlorite.
<b>LD50 acute dermal</b>	> 5000 mg/kg	rabbit		Data refer to sodium hypochlorite.
<b>Skin irritation</b>	corrosive			
<b>Eye irritation</b>	corrosive			
<b>Skin sensitization</b>	non-sensitizing			

#### 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

	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>				The methods for determining biodegradability are not applicable to inorganic substances.

### 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

Harmful effect in the water possible by shifting of the pH value.

#### Behaviour in sewage plant

When discharged into biological sewage treatment plants, interference with the degradation activity of activated sludge is possible, depending on the local conditions and concentrations involved.

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**General regulation**

Ecological dates are not available.  
Do not allow uncontrolled leakage of product into the environment.

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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**

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**

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.1. UN number</b>	1791	1791	1791
<b>14.2. UN proper shipping name</b>	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION	Hypochlorite solution
<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>	Yes	Yes	Yes

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No information available.

**Land and inland navigation transport ADR/RID**

Hazard label(s) 8  
tunnel restriction code E  
Classification code C9

**Marine transport IMDG**

MARINE POLLUTANT

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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** 2 following VwVwS  
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: 1.8

### Sources of key data used

Data sheets of the suppliers.

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.