

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

### 1.1. Product identifier

Name of product Water Line Cleaner  
Art-Nr 02.1178.00

**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)30 192 40  
Information in German.

## 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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Skin Irrit. 2	H315	
Eye Dam. 1	H318	

### Hazard statements for health hazards

H315	Causes skin irritation.
H318	Causes serious 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

**Water Line Cleaner****Signal word**

Danger

**Hazard statements for health hazards**

H315 Causes skin irritation.

H318 Causes serious eye damage.

**Precautionary Statements****General**

P102 Keep out of reach of children.

**Prevention**

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

**Response**

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/...

P362 + P364 Take off contaminated clothing and wash it before reuse.

**Hazardous ingredients for labeling**

fatty alcohol alkoxyates, oxalic acid dihydrate

**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]
7647-01-0	231-595-7	hydrochloric acid	1 < 3	Skin Corr. 1B, H314 / STOT SE 3, H335 / Met. Corr. 1, H290 / **
6153-56-6	205-634-3	oxalic acid dihydrate	3 < 5	Acute Tox. 4, H302 / Acute Tox. 4, H312 / Eye Dam. 1, H318
7664-38-2	231-633-2	phosphoric acid	3 - 5	Skin Corr. 1B, H314 / Metal Corr. 1, H290 / * / **
	Polymer	fatty alcohol alkoxyates	1 < 3	Skin Irrit. 2, H315

**REACH**

CAS No	Name	REACH registration number
7647-01-0	hydrochloric acid	01-2119484862-27-XXXX
6153-56-6	oxalic acid dihydrate	01-2119534576-33-XXXX
7664-38-2	phosphoric acid	01-2119485924-24-XXXX
	fatty alcohol alkoxyates	02-2119548508-30-XXXX

**Additional advice**

\*\* Substance-specific threshold values were taken into account for the classification of the product.

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

less than 5 % anionic surfactants

less than 5 % non-ionic surfactants

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## 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.

#### In case of skin contact

In case of contact with skin wash off with water.

#### In case of eye contact

In case of contact with eyes rinse thoroughly with water.  
Remove contact lenses.  
Call for a doctor immediately.

#### 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

#### Unsuitable extinguishing media

Full water jet

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

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

#### 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.

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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 discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).  
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  
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

Avoid contact with skin and eyes.  
Take the usual precautions when handling with chemicals.

#### General protective measures

Avoid contact with the skin.  
Avoid contact with the eyes.

#### Hygiene measures

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

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

#### Requirements for storage rooms and vessels

Keep in closed original container.

#### Advice on storage compatibility

Do not store together with food.

#### Further information on storage conditions

Keep container dry and tightly closed.

**Storage group** 12

### 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/m3]	[ppm]	Remark
7664-38-2	phosphoric acid	8 hours	1		
		Short-term	2		

#### DNEL-/PNEC-values

##### DNEL worker

CAS No	Substance name	Value	Code	Remark
6153-56-6	oxalic acid dihydrate	4,03 mg/m3	DNEL long-term inhalative (systemic)	
		2,29 mg/kg bw/day	DNEL long-term dermal (systemic)	
		0,69 mg/m3	DNEL acute dermal, short-term (local)	
7647-01-0	hydrochloric acid	15 mg/m3	DNEL acute inhalative (local)	
7664-38-2	phosphoric acid	2,92 mg/m3	DNEL long-term inhalative (local)	

##### DNEL Consumer

CAS No	Substance name	Value	Code	Remark
6153-56-6	oxalic acid dihydrate	1,14 mg/m3	DNEL long-term inhalative (systemic)	
		1,14 mg/kg	DNEL long-term dermal (systemic)	
		0,35 mg/m3	DNEL acute dermal, short-term (local)	
7647-01-0	hydrochloric acid	8 mg/m3	DNEL long-term inhalative (local)	
7664-38-2	phosphoric acid	0,73	DNEL long-term inhalative (local)	

##### PNEC

CAS No	Substance name	Value	Code	Remark
6153-56-6	oxalic acid dihydrate	0,01622 mg/l	PNEC aquatic, marine water	
		0,1622 mg/l	PNEC aquatic, freshwater	
7647-01-0	hydrochloric acid	0,036 mg/l	PNEC aquatic, freshwater	
		0,036 mg/l	PNEC aquatic, marine water	
		0,045 mg/l	PNEC aquatic, intermittent release	
		0,036 mg/l	PNEC sewage treatment plant (STP)	

### 8.2. Exposure controls

#### Respiratory protection

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.

**Water Line Cleaner****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**

light yellow

**Odour**

characteristic

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	< 1	20 °C			
<b>Boiling temperature / boiling range</b>	not determined				
<b>Melting point / Freezing point</b>	not determined				
<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>	not determined				
<b>Relative density</b>	1,05 - 1,07 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>		20 °C			multimiscible

**Water Line Cleaner**

	Value	Temperature	at	Method	Remark
<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 dynamic</b>	11 s	20 °C		DIN 53211	

**Oxidising properties**

No information available.

**Explosive properties**

The product is not explosive.

**9.2. Other information**

Refer to technical data sheet.

**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**

No hazardous reactions known.

**10.4. Conditions to avoid**

Avoid heat and frost.

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

Chlorine

**10.6. Hazardous decomposition products**

Hydrogen chloride (HCl)

Concerning possible decomposition products see section 5.

**Thermal decomposition**

Remark No decomposition if used as directed.

**Additional information**

As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

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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>	Irritant to skin and mucous membranes.			
<b>Eye irritation</b>	risk of strong eye injuries			
<b>Skin sensitization</b>	No known sensitization.			

#### 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

No information available.

### 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

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

Disposal according to official regulations.

#### Recommended cleansing agent

water



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**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>	-	-	-
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	-	-	-

**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.

**Transport/further information**

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

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**SECTION 15: Regulatory information**

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

**National regulations**

<b>Water hazard class</b>	2	Manufacturer specifications hazardous to water
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**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.

Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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**Water Line Cleaner**

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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.

**Sources of key data used**

Data sheets of the suppliers.

- 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.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.