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

### 1.1. Product identifier

**Name of product** Silicone and Wax Remover  
Art-Nr 02.1179.00

**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.

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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
Flam. Liq. 3	H226	
STOT SE 3	H336	
Asp. Tox. 1	H304	
Aquatic Chronic 3	H412	

### Hazard statements for physical hazards

H226 Flammable liquid and vapour.

### Hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

### 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].

### 2.2. Label elements

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



GHS02



GHS07



GHS08

**Signal word**

Danger

**Hazard statements for physical hazards**

H226 Flammable liquid and vapour.

**Hazard statements for health hazards**

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

**Hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

**General**

P102 Keep out of reach of children.

P103 Read label before use.

**Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid inhalation of vapors / spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

**Response**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/... .

P331 Do NOT induce vomiting.

**Storage**

P405 Store locked up.

**Disposal**

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

**Hazardous ingredients for labeling**

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

**Supplemental Hazard information (EU)**

**Health properties**

Repeated exposure may cause skin dryness or cracking.

### Additional information

#### Special rules on packaging

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

#### 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]
	927-241-2	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics	> 70 < 100	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H336 / Aquatic Chronic 3, H412 / , EUH066

#### REACH

CAS No	Name	REACH registration number
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics	01-2119471843-32-XXXX

#### Additional advice

Benzene content <0.1%

## 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.  
Seek medical treatment immediately.

#### In case of skin contact

In case of contact with skin wash off with soap and water.  
Lotion with a cream that contains fat and nourishing substances.

#### In case of eye contact

Medical treatment by eye specialist.  
In case of contact with eyes rinse thoroughly with water.  
Remove contact lenses.

#### In case of ingestion

Call for a doctor immediately.  
Rinse out mouth thoroughly with water.  
Do NOT induce vomiting - risk of aspiration!

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**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**

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**

Fire gas of organic material has to be classed invariably as respiratory poison.

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Vapors can cover long distances along the ground and ignite.

The product floats on water and can be reignited.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply ( isolated ).

Wear protective clothing.

**Additional information**

Forms slippery surfaces with water.

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

Collect contaminated firefighting water separately, must not be discharged into the drains.

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**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

Avoid skin and eye contact.

Use personal protective clothing.

Use breathing apparatus if exposed to vapors / aerosol.

Forms slippery surfaces with water.

Ensure adequate ventilation / exhaustion at the workplace.

**6.2. Environmental precautions**

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

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

Do not distribute with water.

Do not rinse with water - extreme danger of slipping!

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

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After taking up the material dispose according to regulation.

**Additional Information**

Remove all sources of ignition. Avoid open flames.

**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.

Avoid contact with skin and eyes.

Take the usual precautions when handling with chemicals.

**General protective measures**

Do not inhale vapours.

Avoid contact with eyes and skin

**Hygiene measures**

Clean skin thoroughly after working.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Keep away from food and drink.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

Avoid effect of heat.

**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 together with oxidizing agents.

Keep away from combustible, flammable materials or sources of ignition.

**Further information on storage conditions**

Exclude sources of ignition - No smoking.

Protect from direct solar radiation.

Protect from extreme heat and cold.

Keep container dry and store at cool and aired place.

**Storage group** 3

**Fire class** B

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

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL-/PNEC-values****DNEL worker**

CAS No	Substance name	Value	Code	Remark
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics	300 mg/kg bw/day	DNEL long-term dermal (systemic)	
		1500 mg/m3	DNEL long-term inhalative (systemic)	

**DNEL Consumer**

CAS No	Substance name	Value	Code	Remark
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics	300 mg/kg bw/day	DNEL long-term oral (repeated)	
		300 mg/kg bw/day	DNEL long-term dermal (systemic)	
		900 mg/m3	DNEL long-term inhalative (systemic)	

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

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

Short term: filter apparatus, filter A

**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

**Odour**

characteristic

**Odour threshold**

not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>boiling range</b>	140 - 162 °C				Data refer to the main component.
<b>solidifying point</b>	-20 °C				Data refer to the main component.
<b>Flash point</b>	> 28 °C				
<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>	> 200 °C				Data refer to the main component.
<b>Lower explosion limit</b>	0,6 Vol-%				Data refer to the main component.
<b>Upper explosion limit</b>	7 Vol-%				Data refer to the main component.
<b>Vapour pressure</b>	ca. 6 hPa	20 °C			Data refer to the main component.
<b>Relative density</b>	0,79 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	> 1		1013 hPa		(Air = 1.0); Data refer to the main component.
<b>Solubility in water</b>					insoluble

**Silicone and Wax Remover**

	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</b>	not determined				

**Oxidising properties**

No information available.

**Explosive properties**

The product itself is not explosive, however, formation of explosive / flammable vapor-air mixtures is possible.

**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**

Formation of explosive / ignitable gas mixtures with air when heated above flash point and / or during spraying or misting.

Reactions with oxidising agents.

**10.4. Conditions to avoid**

Heat, open flames, sparks

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

Oxidising agent

**10.6. Hazardous decomposition products**

Concerning possible decomposition products see section 5.

**Thermal decomposition**

Remark No decomposition if used as directed.



## 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	OECD 401 äquivalent	Data refer to structurally similar materials to the main component.
<b>LD50 acute dermal</b>	> 5000 mg/kg	rabbit	OECD 402 äquivalent	Data refer to structurally similar materials to the main component.
<b>LC50 acute inhalation</b>	< 4951 mg/m <sup>3</sup> (4 h)	rat	OECD 403 äquivalent	Data refer to structurally similar materials to the main component.
<b>Skin irritation</b>	non-irritant			
<b>Eye irritation</b>	non-irritant			
<b>Skin sensitization</b>	No known sensitization.			
<b>Sensitization respiratory system</b>	No known sensitization.			

#### Aspiration hazard

After swallowing and subsequent vomiting, aspiration into the lungs can occur, which can lead to chemical pneumonia or suffocation.

#### Experiences made from practice

Repeated or prolonged contact with the product leads to degreasing of the skin and may cause non-allergic skin problems (contact dermatitis) and / or absorption of harmful substances.  
 Inhalation of vapors may cause headache, drowsiness and dizziness.  
 Frequent persistent contact with the skin may cause skin irritation.

#### Additional information

The product should be handled with the care usual when dealing with chemicals.  
 Further hazardous properties can not be excluded.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	LL50 10 - 29 mg/l (96 h)	Oncorhynchus mykiss		Data refer to structurally similar materials to the main component.
<b>Daphnia</b>	EL50 22 - 45 mg/l (48 h)	Daphnia magna		Data refer to structurally similar materials to the main component.

**Silicone and Wax Remover**

	Value	Species	Method	Validation
<b>Algae</b>	EL50 > 1000 mg/l (72 h)	Pseudokirchneriella subcapitata		Data refer to structurally similar materials to the main component.

**12.2. Persistence and degradability**

	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	89 % (28 d)		Testtyp: Leichte biologische Abbaubarkeit in Wasser	readily degradable

Data refer to main component.

**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**

Spills may form a film on the water surface, which reduces the oxygen exchange. Death of Organisms may result. However, it is expected that the product evaporates relatively quickly.

**General regulation**

Do not allow uncontrolled leakage of product into the environment.

**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.

**General information**

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

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	3295	3295	3295

	ADR/RID	IMDG	IATA-DGR
<b>14.2. UN proper shipping name</b>	HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics)	HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics)	Hydrocarbons, liquid, n.o.s. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics)
<b>14.3. Transport hazard class(es)</b>	3	3	3
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>	No	No	No

**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) 3

tunnel restriction code D/E

Classification code F1

**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 VwVwS 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.

**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!

**Silicone and Wax Remover**

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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.

**Sources of key data used**

Data sheets of the suppliers.

European Chemicals Agency (ECHA)

Federal Environment Agency (water hazard classes)

EUH066 Repeated exposure may cause skin dryness or cracking.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.