

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

1.1. Product identifier

Name of product Stain Remover Spray for Teak Decks
Art-Nr 02.4861.00

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended intended purpose(s)
stain remover

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.

! 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
Aerosol 1	H222, H229	
Skin Irrit. 2	H315	
STOT SE 3	H336	
Aquatic Chronic 2	H411	

Hazard statements for physical hazards

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

! Hazard statements for health hazards

H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.

Hazard statements for environmental hazards

H411 Toxic 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



GHS09

! Signal word
Danger

Hazard statements for physical hazards

H222 Extremely flammable aerosol.
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! Hazard statements for health hazards

H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.

Hazard statements for environmental hazards

H411 Toxic 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

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.

Response

P370 + P378 In case of fire: Use sand, dry chemical or alcohol-resistant foam for extinction.

Storage

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

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

Hazardous ingredients for labeling

Hydrocarbons, C6-C7, isoalkanes, cyclic, <5% hexane, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane, Hydrocarbons, C6, isoalkanes, <5% n-hexane, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclenes

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]
110-54-3	203-777-6	n-hexane	< 5	Flam. Liq. 2, H225 / Repr. 2, H361f / Asp. Tox. 1, H304 / STOT RE 2, H373 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Aquatic Chronic 2, H411
110-82-7	203-806-2	cyclohexane	< 1,5	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
64742-49-0	931-254-9	Hydrocarbons, C6, isoalkanes, <5% n-hexane	< 40	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 / STOT SE 3, H336
	921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane	< 75	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 / STOT SE 3, H336
	926-605-8	Hydrocarbons, C6-C7, isoalkanes, cyclic, < 5% hexane	< 100	Flam. Liq. 2, H225 / STOT SE, H336 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / , EUH066
	927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclenes	< 60	Flam. Liq. 2, H225 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Chronic 2, H411

REACH

CAS No	Name	REACH registration number
64742-49-0	Hydrocarbons, C6, isoalkanes, <5% n-hexane	01-2119484651-34-xxxx
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane	01-2119475514-35-XXXX
	Hydrocarbons, C6-C7, isoalkanes, cyclic, <5% hexane	01-2119486291-36-XXXX
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclenes	01-2119475515-33-xxxx

Additional advice

Cyclohexane and n-hexane are part of the hydrocarbon mixture.

! 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.
Adhere to personal protective measures when giving first aid.

In case of inhalation

Ensure of fresh air.
If uncounscious, place and transport in stable side position and seek medical advice.

In case of skin contact

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

In case of eye contact

In case of contact with eyes rinse thoroughly with water.
Remove contact lenses.

! In case of ingestion

Do not induce vomiting.
Seek medical advice immediately.
Rinse out mouth thoroughly with water.

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

Physician's information / possible symptoms

Unconsciousness
Disorder of the central nervous system
Headache
Nausea
Confusion
Dizziness
fatigue

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

Treatment (Advice to doctor)

Treat symptoms.
If necessary, give oxygen.

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 (CO₂)
Vapors can cover long distances along the ground and ignite.
Vapours may form explosive mixtures with air.
The product floats on water and does not dissolve.

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

Cool endangered containers with water spray jet.
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.
Heating leads to pressure increase and risk of bursting.

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.
Keep away sources of ignition.
Use breathing apparatus if exposed to vapors / aerosol.
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

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

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 contact with skin and eyes.
Take the usual precautions when handling with chemicals.
Do not breathe aerosols / vapors.

General protective measures

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
The heavy vapours may bridge a long distance to source of ignition.
Vapours can form an explosive mixture with air.
Avoid effect of heat.

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 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.
Keep container dry and store at cool and aired place.
Protect from heat/overheating.

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
110-54-3	n-hexane	8 hours	72	20	
110-82-7	cyclohexane	8 hours	700	200	

8.2. Exposure controls

Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus.
Short term: filter apparatus, filter AX

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

flame-stopping and antistatic protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

aerosol

Colour

colourless

Odour

like paraffine

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				

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	Value	Temperature	at	Method	Remark
boiling range	48 - 105 °C			ASTM D1078	Data refer to the main component.
melting point	-20 °C				Data refer to the main component.
Flash point	< 0 °C			ASTM D 56	
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	> 200 °C				Data refer to the main component.
Lower explosion limit	0,6 Vol-%				Data refer to the main component.
Upper explosion limit	8,3 Vol-%				Data refer to the main component.
Vapour pressure	100 - 200 hPa	20 °C			Data refer to the main component.
Relative density	0,65 - 0,8 g/cm ³	15 °C		DIN 51757	Data refer to the main component.
Vapour density	not determined				
Solubility in water					immiscible
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity kinematic	0,3 - 1,4 mm ² /s	20 °C			
Oxidising properties	No information available.				

Explosive properties

Could form explosive mixtures with air.

9.2. Other information

Refer to technical data sheet.

SECTION 10: Stability and reactivity

10.1. Reactivity

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.2. Chemical stability

Stable under normal conditions of use.
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

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.

Additional information

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

! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
Skin irritation	irritant			
Eye irritation	low irritant - no labeling duty			
Skin sensitization	No known sensitization.			

Specific target organ toxicity (single exposure)

May cause drowsiness and dizziness.

! Aspiration hazard

No classification in terms of aspiration (mixture in pressure vessel / aerosol can).

! 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

No information available.

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Biological degradability	> 80 % (28 d)			readily biodegradable
	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
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2.1	2	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	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) 2.1

tunnel restriction code D

Classification code 5F

SECTION 15: Regulatory information

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

No information available.

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!

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.

Sources of key data used

Data sheets of the suppliers.

- EUH066 Repeated exposure may cause skin dryness or cracking.
- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.