

# SAFETY DATA SHEET

according to Regulation (EC)

No. 1907/2006 (REACH) and (EU) 2015/830

Page: 1/14

FN: 1008300-01

Stand: 29.07.2020

Base: 14.02.2020

## Aquagard special varnish (Aquagard Speziallack)

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

#### 1.1. Product identifier

Name of product

Aquagard special varnish (Aquagard Speziallack)

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

Recommended intended purpose(s)

Coating agent

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

**DOYMA GmbH & Co**

SEALING SYSTEMS

FIRE PROTECTION SYSTEMS

Industriestraße 43-57

D-28876 Oyten/Germany

Phone: +49 (0) 42 07/91 66-300

Fax: +49 (0) 42 07/91 66-199

E-Mail: info@doyma.de

www.doyma.de

#### Advice

Phone: +49 (0) 42 07/91 66-300

E-Mail: (competent person) info@doyma.de

#### 1.4. Emergency telephone number

Emergency advice

Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen;

Phone: +49 (0) 55 1-19 240

Information in German.

England, Wales and Scotland dial: 111; Republic of Ireland dial: 01 809 2166

### 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	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Skin Sens. 1	H317	
STOT SE 3	H335, H336	
STOT RE 2	H373	
Aquatic Chronic 3	H412	

#### Hazard statements for physical hazards

H226 Flammable liquid and vapour.

#### Hazard statements for health hazards

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

### 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

Warning

### Hazard statements for physical hazards

H226 Flammable liquid and vapour.

### Hazard statements for health hazards

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

### Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

### Precautionary Statements

#### Prevention

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

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

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

#### Response

P370 + P378 In case of fire: Use extinguishing powder or sand for extinction.

#### Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

### Hazardous ingredients for labeling

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), Hydrocarbons, C9, aromatics, Polyoxyethylen-tridecylether-phosphat, propylbenzene, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

### Special rules for supplemental label elements for certain mixtures

Contains epoxy constituents. May produce an allergic reaction.

### 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****Description**

Polyvinyl chloride paint

**Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
95-63-6	202-436-9	1,2,4-trimethylbenzene	0,5 - 2,5	Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Aquatic Chronic 2, H411
25068-38-6	500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	0,5 - 2,5	Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411
111-76-2	203-905-0	2-butoxyethanol	5 - 10	Acute Tox. 4, H332 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / Eye Irrit. 2, H319 / Skin Irrit. 2, H315
123-86-4	204-658-1	n-butyl acetate	5 - 10	Flam. Liq. 3, H226 / STOT SE 3, H336
64742-95-6	918-668-5	Hydrocarbons, C9, aromatics	10 - 25	Flam. Liq. 3, H226 / STOT SE 3, H336 / Asp. Tox. 1, H304 / STOT SE 3, H335 / Aquatic Chronic 2, H411 /
1330-20-7	215-535-7	xylene	2,5 - 5	Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Acute Tox. 4, H312 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Asp. Tox. 1, H304 / STOT SE 3, H335 / STOT RE 2, H373
103-65-1	203-132-9	propylbenzene	0,1 - 0,5	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H335 / Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 / Skin Sens. 1, H317
	927-344-2	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	5 - 10	Asp. Tox. 1, H304 / STOT SE 3, H336 / STOT RE 1, H372 / Aquatic Chronic 2, H411 / Flam. Liq. 3, H226
123-26-2	204-613-6	Polyoxyethylen-tridecylether-phosphat	0,1 - 0,5	Skin Sens. 1B, H317 / Aquatic Chronic 3, H412

**REACH**

CAS No	Name	REACH registration number
111-76-2	2-butoxyethanol	01-2119475108-36
123-86-4	n-butyl acetate	01-2119485493-29
64742-95-6	Hydrocarbons, C9, aromatics	01-2119455851-35-XXXX
1330-20-7	xylene	01-2119488216-32-XXXX
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	01-2119463586-28-XXXX
123-26-2	Polyoxyethylen-tridecylether-phosphat	01-2120783565-42-XXXX

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

If threatening unconsciousness, position and transport in recovery position  
In case of symptoms or in case of doubt, seek medical advice.

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile.  
In case of irregular breathing or respiratory arrest initiate artificial respiration.

#### In case of skin contact

In case of contact with skin wash off immediately with soap and water.  
Remove contaminated clothing immediately, even underwear and shoes.  
Do not use solvents or thinners.

#### In case of eye contact

Eye rinsing with water carefully while protecting unhurt eye.  
Remove contact lenses.  
Seek medical advice immediately.

#### In case of ingestion

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

### 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

#### Treatment (Advice to doctor)

Treat symptoms.  
Decontamination

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam  
Dry powder  
Carbon dioxide  
Water spray jet

#### Unsuitable extinguishing media

Strong water jet

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

In the event of fire the following can be released:

Fire will produce dense black smoke.

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Vapors are heavier than air and spread along ground. Inflammation over longer distances possible.

Vapors may form explosive mixtures with air.

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

Inhalation of dangerous decomposition products can cause serious damage to health.

### 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.  
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

Ensure adequate ventilation.  
Keep away sources of ignition.  
Do not breathe vapors.

### 6.2. Environmental precautions

If the product contaminates soil, waterways or drains inform the corresponding authorities.  
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.  
Carry out subsequent cleaning with cleaning agents, do not use solvents.  
Take up with absorbent material (e.g. general-purpose binder).  
After taking up the material dispose according to regulation.  
Ensure adequate ventilation.

### 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 the formation of flammable and explosive vapor concentrations in the air and exceeding the occupational exposure limits.  
Do not inhale dusts, particles and spray mist when using this preparation.  
Avoid breathing (grinding) dust.  
Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.  
Take measures against electrostatically charging.  
Use antistatic tools.  
Open and handle container with care!  
Use only in well-ventilated areas.  
Avoid contact with clothes, skin and eyes.  
Keep container tightly closed.  
Never empty containers with pressure - no pressure container!

### General protective measures

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

### 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.  
Remove soiled or soaked clothing immediately.  
Work in rooms with good ventilation.  
Wash hands before breaks and after work.  
Use barrier skin cream.

### Advice on protection against fire and explosion

The heavy vapours may bridge a long distance to source of ignition.  
Vapours can form an explosive mixture with air.  
Keep away from heat and ignition sources.  
Take precautionary measures against static discharges.  
Floors must be electrically conductive.  
Pay attention to general rules of internal fire prevention.  
Use only explosion-proof equipment.  
Use explosion-proof equipment / fittings and non-sparking tools.  
Wear shoes with conductive soles.

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

#### Requirements for storage rooms and vessels

Keep in closed original container.  
Floors must comply with the "Guidelines for avoiding ignition hazards due to electrostatic charges (BGR 132)".

#### Advice on storage compatibility

Keep away from strongly acidic and alkaline materials as well as oxidizing agents.

#### Further information on storage conditions

Protect from heat and direct solar radiation.  
Keep container in a well-ventilated place  
Store at +5 to +25 °C.  
Keep container dry and store at a cool place.

### 7.3. Specific end use(s)

No information available.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
111-76-2	2-butoxyethanol	8 hours	98	20	skin
		Short-term	246	50	
1330-20-7	xylene, mixed isomers, pure	8 hours	221	50	skin
		Short-term	442	100	
95-63-6	1,2,4-trimethylbenzene	8 hours	100	20	

**DNEL-/PNEC-values  
DNEL worker**

CAS No	Substance name	Value	Code	Remark
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	44 mg/kg	DNEL long-term dermal (systemic)	
		330 mg/m3	DNEL long-term inhalative (systemic)	
123-86-4	n-butyl acetate	300 mg/m3	DNEL long-term inhalative (systemic)	
		11 mg/kg	DNEL long-term dermal (systemic)	
		600 mg/cm3	DNEL acute inhalative (local)	
		600 mg/m3	DNEL acute inhalative (systemic)	
		300 mg/m3	DNEL long-term inhalative (local)	
		11 mg/kg	DNEL acute dermal, short-term (systemic)	
1330-20-7	xylene	221 mg/m3	DNEL long-term inhalative (systemic)	
		212 mg/kg	DNEL long-term dermal (systemic)	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	12,25 mg/m3	DNEL acute inhalative (systemic)	
		8,33 mg/kg	DNEL long-term dermal (systemic)	

**DNEL Consumer**

CAS No	Substance name	Value	Code	Remark
123-86-4	n-butyl acetate	2 mg/kg	DNEL long-term oral (repeated)	
		35,7 mg/m3	DNEL long-term inhalative (local)	
		2 mg/kg	DNEL short-term oral (acute)	
		6 mg/kg	DNEL acute dermal, short-term (systemic)	
		300 mg/m3	DNEL acute inhalative (systemic)	
		35,7 mg/m3	DNEL long-term inhalative (systemic)	
		6 mg/kg	DNEL long-term dermal (systemic)	
		300 mg/m3	DNEL acute inhalative (local)	

**PNEC**

CAS No	Substance name	Value	Code	Remark
123-86-4	n-butyl acetate	0,098 mg/kg	PNEC sediment, marine water	
		0,18 mg/l	PNEC aquatic, freshwater	
		35,6 mg/l	PNEC sewage treatment plant (STP)	
		0,018 mg/l	PNEC aquatic, marine water	
		0,981 mg/kg	PNEC sediment, freshwater	
1330-20-7	xylene	12,46 mg/kg	PNEC sediment, freshwater	
		6,58 mg/l	PNEC sewage treatment plant (STP)	

**DNEL-/PNEC-values (continued)**

CAS No	Substance name	Value	Code	Remark
		2,31 mg/kg	PNEC soil	
		0,327 mg/l	PNEC aquatic, marine water	
		0,327 mg/l	PNEC aquatic, freshwater	
		12,46 mg/kg	PNEC sediment, marine water	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	0,0062 mg/kg	PNEC sediment, marine water	
		0,006 mg/l	PNEC aquatic, freshwater	
		0,0006 mg/l	PNEC aquatic, marine water	
		10 mg/l	PNEC sewage treatment plant (STP)	
		0,0627 mg/kg	PNEC sediment, freshwater	

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

If the workplace limit values are exceeded, a suitable respiratory protective device must be used.

Only use breathing apparatus with a CE mark including a four-digit test number.

The wearing time limits according to GefStoffV in connection with the rules for the use of breathing apparatus (BGR 190) must be observed.

**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

**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**

various, depending on coloration

**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 temperature / boiling range</b>	not determined				
<b>Melting point / Freezing point</b>	not determined				
<b>Flash point</b>	27 °C			DIN 53213	
<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>	not determined				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	3,7091 hPa	20 °C			
<b>Relative density</b>	1,18 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					insoluble
<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>	80 s	20 °C		DIN 53211	6 mm
<b>Solvent separation test</b>	< 3 %				ADR/RID

**Oxidising properties**

No information available.

### Explosive properties

Vapours may form an explosive mixture with air.

### 9.2. Other information

see 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 strong acids.

Reactions with strong alkalies and oxidising agents.

### 10.4. Conditions to avoid

Keep away ignition sources - No smoking.

Protect from heat and direct sunlight.

Protect from heat / overheating.

### 10.5. Incompatible materials

#### Substances to avoid

Alkali (lye)

Acid

Oxidising agent

### 10.6. Hazardous decomposition products

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>	irritant			
<b>Eye irritation</b>	irritant			
<b>Skin sensitization</b>	sensitizing			

	Value/Validation	Species	Method	Remark
<b>Sensitization respiratory system</b>	No sensitizing effects known.			

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Mutagenicity</b>				No classification.
<b>Reproduction-Toxicity</b>				No classification.
<b>Carcinogenicity</b>				No classification.

**Specific target organ toxicity (single exposure)**

May cause respiratory irritation.  
 May cause drowsiness or dizziness.

**Specific target organ toxicity (repeated exposure)**

Causes damage to organs through prolonged or repeated exposure.

**Experiences made from practice**

Inhaling solvent components above the AGW value can lead to health problems, e.g. Irritation of the mucous membranes and respiratory organs, damage to the liver, kidneys and the central nervous system. Signs of this are: headache, dizziness, tiredness, muscle weakness, drowsiness, in severe cases: loss of consciousness. Solvents can cause some of the above effects through skin absorption. Splashes can cause eye irritation and reversible damage. Frequent and prolonged skin contact may dry and defat the skin, this may result in discomfort and dermatitis.

**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**

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

Ecological data for the mixture are not available.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste code No.

08 01 11\*

#### Name of waste

waste paint and varnish containing organic solvents or other hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

### 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

Uncontaminated packaging may be reused.

Disposal in accordance with local regulations.

Packaging that cannot be cleaned should be disposed of like the product.

### General information

The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector.

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## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	1263	1263	1263
<b>14.2. UN proper shipping name</b>	PAINT	PAINT	Paint
<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  
Special provisions 640E  
Classification code F1

#### Marine transport IMDG

Transport in accordance with the provisions of paragraph 2.3.2.5 of the IMDG Code.

#### Transport/further information

Always transport in closed, upright and secure containers. Ensure that people who are transporting the product know what to do in the event of an accident or leak. Instructions for safe handling: s. Sections 6 - 8.

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### SECTION 15: Regulatory information

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

##### VOC standard

VOC value -473 g/L

#### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were carried out.

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### SECTION 16: Other information

#### Training advice

See technical data sheet.

#### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

#### Further information

National and local regulations concerning chemicals shall be observed.

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 observe the following disclaimer! Our safety data sheets have been compiled according to effective EU directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

#### Sources of key data used

Data sheets of the sub-supplier.  
European Chemicals Agency (ECHA).  
Full text of the hazard phrases in section 3.

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.



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according to Regulation(EC)

No. 1907/2006 (REACH) and (EU) 2015/830

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## Aquagard special varnish (Aquagard Speziallack)

- H372 Causes 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).
- 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).
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

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25  
years  
guarantee

