

Page 1/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.10.2023

Version number 1

Revision: 20.10.2023

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

1.1 Product identifier Trade name Aqua H-484-HARDENER

Article number: 5500

1.2 Relevant identified uses of the substance or mixture and uses advised against Product category PC9a Coatings and paints, thinners, paint removers Application of the substance / the mixture Wood coating Hardening agent/ Curing agent

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:

Remmers GmbH Bernhard-Remmers-Str. 13 D-49624 Löningen / Germany Manor Tel.: +49(0)5432/83-0 Fax: +49(0)5432/3985 Information department: Product Safety department: Phone: +44 (0) 1293 594 010 Email: sales@remmers.co.ukk

Remmers (UK) Limited Unit 4 , Lloyds Court Manor Royal, Crawley – West Sussex RH10 9QU fon +44 (0) 1293 594 010 fax +44 (0) 1293 594 037

1.4 Emergency telephone number:

National Poisons Information Service (NPIS): In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

24h-Transport Emergency Contact Phone Number: within USA and Canada: 1-800-424-9300 outside USA and Canada: 001-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3	H226	Flammable liquid and vapour.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation. Hazard pictograms



Signal word Warning

Hazard-determining components of labelling: aliphatic polyisocyanate

Page 2/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.10.2023

Version number 1

Revision: 20.10.2023

Trade name Aqua H-484-HARDENER

	(Contd. of page 1)
2-methoxy-1-methylethyl acetate	
Hazard statements	
H226 Flammable liquid and vapo	our.
H332 Harmful if inhaled.	
H317 May cause an allergic skin	reaction.
H335-H336 May cause respiratory irrita	ation. May cause drowsiness or dizziness.
H412 Harmful to aquatic life with	long lasting effects.
Precautionary statements	
P210 Keep away from hea	at, hot surfaces, sparks, open flames and other ignition sources.
No smoking.	
P261 Avoid breathing mis	t/vapours/spray.
P273 Avoid release to the	environment.
	ves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin
with water [or showe	er].
	container in accordance with local/regional/national/
international regulat	ions.
Additional information:	
EUH204 Contains isocyanates. May pr	oduce an allergic reaction.
2.3 Other hazards	
Results of PBT and vPvB assessme	nt
PBT: Not applicable.	
vPvB: Not applicable.	

Determination of endocrine-disrupting properties Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of the substances listed below with harmless additions.

Dangerous components [% w/w]:		
CAS: 666723-27-9	aliphatic polyisocyanate Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335; Aquatic Chronic 3, H412, EUH204	≥70-≤85%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29- XXXX	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	≥20-<30%

Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact

Wash immediately with water and soap and rinse thoroughly.

Wash off immediately with water.

After eye contact Rinse opened eye for several minutes under running water.

After swallowing Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. on page 3)

Page 3/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.10.2023

Version number 1

Revision: 20.10.2023

Trade name Aqua H-484-HARDENER

(Contd. of page 2)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Vapours are heavier than air and spread out over the ground. Ignition over greater distances is possible.

5.3 Advice for firefighters

Protective equipment: Put on breathing apparatus.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Inform responsible authorities in case product reaches bodies of water or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaust in workplaces. Avoid the formation of aerosols. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and containers: No special requirements. **Further information about storage conditions:** Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk

Additional information: The lists that were valid during compilation were used as a basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Immediately remove soiled, saturated clothing.

Wash hands before pauses and after work.

The following indication regarding the personal protective equipment are to be considered as suggestions. The selection of the necessary personal protective equipment is to be evalutated by the employer depending on the types of operations and the local circumstances. If a risk assessment onsite shows that there is no risk for employees, the personal protective euiqment is not required or the amount of the PPE can be adpated accordingly. Page 4/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.10.2023

Version number 1

Revision: 20.10.2023

Trade name Aqua H-484-HARDENER

Respiratory equipment:

(Contd. of page 3)

In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.

Hand protection

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Eye/face protection Tightly sealed safety glasses.

SECTION 9: Physical and chemical proper	ties
9.1 Information on basic physical and chemica General Information	i properties
Physical state	Fluid
Colour:	transparent
Odour:	Pungent
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point or initial boiling point and boiling	
range	146 °C
Flammability	Flammable.
Lower and upper explosion limit	
Lower:	1.5 Vol %
Upper:	10.8 Vol %
Flash point:	44 °C
Auto-ignition temperature:	333 °C
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity at 20 °C	35 s (DIN 53211/4)
dynamic:	Not determined.
Solubility	
Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	3.4 hPa
Density and/or relative density	
Density at 20 °C:	1.1 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of health	
and environment, and on safety.	
Explosive properties:	Product is not explosive. However, formation of
	dangerous explosive vapour/air mixtures is
	possible.
Solvent separation test	< 3 %
Organic solvents:	28.0 %
VOC EU	307.6 g/l
Change in condition	
Evaporation rate	Not determined.
	(Contd. on page 5)

(Contd. on page 5)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.10.2023

Version number 1

Revision: 20.10.2023

(Contd. of page 4)

Trade name Aqua H-484-HARDENER

Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity: Harmful if inhaled.

LD/LC50 values that are relevant for classification:			
CAS: 666723-27-9 aliphatic polyisocyanate			
Oral	LD50	>5,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rabbit)	
CAS: 108	CAS: 108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,500 mg/kg (rat)	
Inhalative	LC50/4 h	35.7 mg/l (rat)	
Skin correction/irritation: Based on available data, the classification criteria are not mot			

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/irritation: Based on available data, the classification criteria are not met. Sensitisation: May cause an allergic skin reaction.

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: May cause respiratory irritation. May cause drowsiness or dizziness.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

(Contd. on page 6)

Page 6/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.10.2023

Version number 1

Revision: 20.10.2023

Trade name Aqua H-484-HARDENER

(Contd. of page 5)

CAS: 666723-27-9 alipha	tic polyisocyanate
EC50/48h >100 mg/l (Da	phnia magna)
	gradability No further relevant information available.
12.3 Bioaccumulative po	otential No further relevant information available.
12.4 Mobility in soil No f	urther relevant information available.
12.5 Results of PBT and	vPvB assessment
PBT: Not applicable.	
PvB: Not applicable.	
12.6 Endocrine disruptir	
	tain substances with endocrine disrupting properties.
12.7 Other adverse effect	ts
Remark: Harmful to fish	
Additional ecological in	formation:
General notes:	
	ach ground water, bodies of water or sewage system.
Harmful to aquatic organia	sms

Do not dispose of together with household garbage. Do not allow product to reach sewage system. The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

European waste catalogue		
08 05 01*	waste isocyanates	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
08 01 17*	wastes from paint or varnish removal containing organic solvents or other hazardous substances	

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations. Packaging can be reused or recycled after cleaning.

SECTION 14: Transport information	
14.1 UN number or ID number ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name ADR IMDG, IATA	1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.

(Contd. on page 7)

Page 7/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.10.2023

Version number 1

Revision: 20.10.2023

Trade name Aqua H-484-HARDENER

	(Contd. of page 6)
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
hazard identification number:	30
EMS Number: Stowage Category	F-E, <u>S-E</u> A
14.7 Maritime transport in bulk according	
IMO instruments	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 D/E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III

SECTION 15: Regulatory information

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

Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed. Seveso category P5c FLAMMABLE LIQUIDS Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Page 8/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.10.2023

Version number 1

Revision: 20.10.2023

Trade name Aqua H-484-HARDENER

(Contd. of page 7)

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

Relevant phrases

H226 Flammable liquid and vapour.

- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

EUH204 Contains isocyanates. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008 Calculation method

Department issuing data specification sheet: Product Safety department / EHS **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3