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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.12.2022 Version number 4 (replaces version 3) Revision: 07.12.2022

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

1.1 Product identifier

Trade name Aqua V-490 Retarder

Article number: 0000193900

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

No further relevant information available.

Application of the substance / the mixture Additive

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Remmers GmbH Remmers (UK) Limited
Bernhard-Remmers-Str. 13 Unit 4 , Lloyds Court

D-49624 Löningen / Germany Manor Royal, Crawley – West Sussex RH10 9QU Tel.: +49(0)5432/83-0 fon +44 (0) 1293 594 010

fon +44 (0) 1293 594 010 fax +44 (0) 1293 594 037

Information department:

Fax: +49(0)5432/3985

Product Safety department: Phone: +44 (0) 1293 594 010

Email: sales@remmers.co.ukk

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.

Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness.

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





GHS02 GHS07

Signal word Warning

Hazard-determining components of labelling:

propan-2-ol

Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

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

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

protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** 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: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44- XXXX | 2-(2-butoxyethoxy)ethanol Eye Irrit. 2, H319 | ≥50-≤70% | | |
| CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25- XXXX | propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; 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

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

After inhalation

In case of respiratory tract or mucous membrane irritation (e.g. tussive irritation), if you feel unwell or prolonged exposure, seek medical attention.

After skin contact Do not use solvents or thinners!

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing Keep the person affected quiet.

Information for doctor

symptomatic treatment

Reproduce fat film on the skin in order to prevent dermatitis (skin inflammation).

Give active charcoal to reduce resorption in the gastro-intestinal tract. Gastric irrigation only by endotracheal intubation because of the risk of aspiration. Never give milk or fatty oils.

4.2 Most important symptoms and effects, both acute and delayed

In case of prolonged/repeated exposure or in high concentrations:

Headache

Dizziness

nausea

tiredness

anaesthetic effect

Dazed

Gastro-intestinal symptoms

Dry skin

Excessive contact with skin, eyes or respiratory system may cause irritation.

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Danger Long-term or repeated exposure may cause inflammation of the skin (dermatitis).

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO_□, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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

5.2 Special hazards arising from the substance or mixture

May be released in case of fire

Carbon monoxide (CO)

Thick black smoke forms in fires. Inhalation of dangerous decomposition products may cause serious damage to your health.

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

5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.

Do not inhale explosion gases or combustion gases.

Wear full protective suit.

Additional information

Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow to enter the ground/soil.

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

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about protection against explosions and fires:

Fumes can combine with air to form an explosive mixture.

Use explosion-proof apparatus / fittings and spark-proof tools.

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:

Ventilate storage and work rooms sufficiently.

Information on storage in a common storage facility:

Suitable material for containers and pipes: Light metals and their alloys.

Further information about storage conditions:

Store container in a well ventilated position.

Avoid contact with air / oxygen.(formation of peroxide).

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Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Com | Components with limit values that require monitoring at the workplace: | | | | |
|-----|--|--|--|--|--|
| CAS | CAS: 112-34-5 2-(2-butoxyethoxy)ethanol | | | | |
| WEL | Short-term value: 101.2 mg/m³, 15 ppm Long-term value: 67.5 mg/m³, 10 ppm | | | | |
| CAS | CAS: 67-63-0 propan-2-ol | | | | |
| WEL | Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm | | | | |

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 item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Do not eat, drink or smoke while working.

Use skin protection cream for preventive skin protection.

Keep away from food, beverages and animal feed.

Immediately remove soiled, saturated clothing.

Wash hands before pauses and after work.

Avoid contact with eyes and skin.

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 euigment is not required or the amount of the PPE can be adpated accordingly.

Respiratory equipment:

Respiratory protection recommended.

Short term filter device:

Filter A (brown)

Hand protection

Solvent resistant gloves

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

Nitrile rubber, NBR

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.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Tightly sealed safety glasses.

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state Fluid Colour: clear

Odour: Characteristic

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Odour threshold:

Melting point/freezing point:

Not determined.

Not determined

Boiling point or initial boiling point and boiling

range Not determined Flammability Flammable.

Lower and upper explosion limit

Lower:0.9 Vol %Upper:12.0 Vol %Flash point:29 °CIgnition temperature:190 °C

Decomposition temperature: pHNot determined.
Not determined.

Viscosity:

Kinematic viscosity dynamic:Not determined.
Not determined.

Solubility

Water: Not miscible or difficult to mix

Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure at 20 °C: 48 hPa

Density and/or relative density

Density at 20 °C:

Relative density

Vapour density

0.92 g/cm³

Not determined.

Not determined.

9.2 Other information

Appearance:

Form: Fluid

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: 100.0%

Change in condition

Evaporation rate Not determined.

Information with regard to physical hazard

classes

ExplosivesVoidFlammable gasesVoidAerosolsVoidOxidising gasesVoidGases under pressureVoid

Flammable liquids Flammable liquid and vapour.

Flammable solids

Self-reactive substances and mixtures

Pyrophoric liquids

Pyrophoric solids

Self-heating substances and mixtures

Void

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

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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: Strong oxidising agents
- 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: Based on available data, the classification criteria are not met.

| LD/LC50 values that are relevant for classification: | | | | |
|--|----------|-----------------------|--|--|
| CAS: 112-34-5 2-(2-butoxyethoxy)ethanol | | | | |
| Oral | LD50 | 5,660 mg/kg (rat) | | |
| Dermal | LD50 | 4,000 mg/kg (rabbit) | | |
| CAS: 67-63-0 propan-2-ol | | | | |
| Oral | LD50 | 4,570 mg/kg (rat) | | |
| Dermal | LD50 | 13,400 mg/kg (rabbit) | | |
| Inhalative | LC50/4 h | 30 mg/l (rat) | | |

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eve damage/irritation: Causes serious eve irritation.

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

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 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.

Additional toxicological information:

Solvent splashes have an irritating effect on eyes and may cause irreversible damage.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes: Do not allow product to reach ground water, bodies of water or sewage system.

* SECTION 13: Disposal considerations

Recommendation

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.

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Do not dispose of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Uncleaned packaging:

Recommendation:

Only completely empty containers may be recycled.

Disposal must be made according to official regulations.

Packaging can be reused or recycled after cleaning.

SECTION 14: Transport information

| 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 | |
| | 0 (F4) Florescalle II. 14 |
| Class Label | 3 (F1) Flammable liquids. 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: | 33 |
| EMS Number: Stowage Category | F-E, <u>S-E</u> A |
| <u> </u> | |
| 14.7 Maritime transport in bulk according IMO instruments | g to Not applicable. |
| Transport/Additional information: | TOP - TOP - |
| ADR | |
| Limited quantities (LQ) | 5L |
| Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| Transport category | 3 |
| Tunnel restriction code | D/E |
| IMDG Limited quantities (LQ) | 5L |
| | |

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| Excepted quantities (EQ) | 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, 55

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.

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

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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

Department issuing data specification sheet: Product Safety department / EHS

Date of previous version: 30.09.2019 Version number of previous version: 3

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. 2: Flammable liquids - Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

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