

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AquaRoute® AQ 4 White

Revision date: 20.09.2017

Product code: CLP_30743

Page 1 of 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

AquaRoute® AQ 4 White

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Waterborne acrylic paint.

Uses advised against

No hazardous reaction when handled and stored according to provisions.

1.3. Details of the supplier of the safety data sheet

Company name:	Geveko Markings Germany GmbH	
Street:	Renkenrunsstrasse 16	
Place:	D-79379 Muellheim/Baden	
Post-office box:	1348	
	D-79373 Muellheim/Baden	
Telephone:	+49 7631 3687-0	Telefax: +49 7631 3687-36
e-mail:	info@gevekomarkings.de	
Contact person:	Product Management	Telephone: -13 / -14 / -21/ -35
e-mail:	msds@gevekomarkings.com	
Internet:	www.geveko-markings.com	
Responsible Department:	Product Management	

1.4. Emergency telephone number: National Poisons Information Service London: +44 (0) 20 76 35 91 91 (24 hrs.)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements**Additional advice on labelling**

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [GHS].

2.3. Other hazards

Due to its pH-value (see chapter 9), irritation of the skin and eyes cannot be ruled out. Process vapors can irritate airways, skin and eyes.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Aqueous mixture of acrylic polymer dispersions with additives and mineral fillers.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP].

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AquaRoute® AQ 4 White

Revision date: 20.09.2017

Product code: CLP_30743

Page 2 of 10

sheet if possible).

No administration in cases of unconsciousness or cramps.

If victim is at risk of losing consciousness, position and transport on their side.

After inhalation

Provide fresh air.

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

Clean with detergents. Avoid solvent cleaners.

After cleaning apply high-fat content skin care cream.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

No known symptoms to date.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

The product itself does not burn.

Unsuitable extinguishing media

no

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapors.

5.3. Advice for firefighters

Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ventilate affected area. Do not breathe vapour. Frequently or prolonged contact with skin may cause dermal irritation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Inform respective authorities in case of seepage into water, soil or drains.

6.3. Methods and material for containment and cleaning up

Clear contaminated areas thoroughly. Dilute with plenty of water.

Take up mechanically, placing in appropriate containers for disposal.

Retain contaminated washing water and dispose it.

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AquaRoute® AQ 4 White

Revision date: 20.09.2017

Product code: CLP_30743

Page 3 of 10

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Use only in well-ventilated areas. Avoid contact with skin and eyes. Avoid exposure - obtain special instructions before use.

Do not breathe gas/fumes/vapour/spray.

When using do not eat, drink or smoke.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Further information on handling

No special handling instructions are necessary.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store in a place accessible by authorized persons only.

Keep/Store only in original container.

Only use containers specifically approved for the substance/product.

Suitable material for Container:

- Plastic container, which cannot form fragments during break,
- Metal container with inner coating.

After use replace the closing cap immediately.

Keep container tightly closed. Do not dry up the product.

The floor should be leak tight, jointless and not absorbent.

Advice on storage compatibility

Storage class (D): 12 (www.vci.de)

Do not store together with:

Storage class (D): 1, (4.1A), (4.3), (5.1C), 6.2, 7

Figures in (): The common storage is only allowed limited.

Further remarks:

Storage class 1 : Explosive substances.

Storage Class 2A : Gases.

Storage class 2B : Aerosols.

Storage Class 3 : Flammable liquids.

Storage class 4.1A : Other explosive substances.

Storage class 4.1B : Flammable solids or desensitized substances.

Storage class 4.2 : Self-igniting substances.

Storage class 4.3 : Substances which, when in contact with water, form flammable gases.

Storage class 5.1A : Strongly oxidizing substances.

Storage class 5.1B : Oxidizing substances.

Storage class 5.1C : Ammonium nitrate and ammonium nitrate materials.

Storage class 5.2 : Organic peroxides and self-reactive substances.

Storage class 6.1A : Combustible acute toxic substances.

Storage class 6.1B : Non-combustible acute toxic substances.

Storage class 6.1C : Combustible toxic substances or substances with chronic effects.

Storage class 6.1D : Non-combustible toxic substances or substances with chronic effects.

Storage class 6.2 : Infectious substances.

Storage class 7 : Radioactive materials.

Storage class 8A : Combustible corrosive substances.

Storage class 8B : Non-combustible corrosive substances.

Storage class 10 : Combustible liquids, if not storage class 3.

Storage class 11 : Combustible solids.

Storage class 12 : Non-combustible liquids.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AquaRoute® AQ 4 White

Revision date: 20.09.2017

Product code: CLP_30743

Page 4 of 10

Storage class 13 : Non-combustible solids.

Storage class 10-13: Other combustible and non-combustible substances.

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

Protect against: heat. frost. UV-radiation/sunlight. Heating causes rise in pressure with risk of bursting.

Do not store at temperatures under: 10 °C.

Observe technical data sheet.

7.3. Specific end use(s)

Only to be used for road marking

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

Use only in well-ventilated areas.

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.

Wash hands before breaks and after work.

After cleaning apply high-fat content skin care cream.

Avoid contact with skin, eyes and clothes.

Eye/face protection

Wear eye/face protection.

Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended protective gloves brand: e.g. WÜRTH, Article No.: 0899 435.

Thickness of glove material: 0,65 - 0,70 mm.

Suitable gloves type: NR (natural rubber, natural latex) / neoprene outer layer like: EN 374, EN420 + EN 388.

Penetration time (maximum wearing period): > 30 min, Class: >= 2.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Prolonged/repetitive skin contact may cause skin de-fattening or dermatitis. After cleaning apply high-fat content skin care cream. e.g. STOKO® soft+care.

Skin protection

Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Suitable respiratory protection apparatus: Half-face mask (DIN EN 140), filter types: K (P2).

Environmental exposure controls

Product related measures to prevent exposure:

After use lock the container immediately.

Do not contaminate water with the product or its container (Do not clean application equipment near surface)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AquaRoute® AQ 4 White

Revision date: 20.09.2017

Product code: CLP_30743

Page 5 of 10

water/Avoid contamination via drains from farmyards and roads).
Do not allow to enter into soil/subsoil.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: white
Odour: characteristic

	Test method
pH-Value (at 21 °C):	9,7 - 10,2 DIN 55659-1

Changes in the physical state

Melting point:	not relevant
Initial boiling point and boiling range:	100 °C DIN 53171
Sublimation point:	not relevant
Softening point:	not relevant
Flash point:	Non-flammable.
Sustaining combustion:	Not sustaining combustion

Flammability

Solid:	not applicable
Gas:	not applicable

Explosive properties

not explosive

Lower explosion limits:	not relevant
Upper explosion limits:	not relevant
Ignition temperature:	Non-flammable.

Auto-ignition temperature

Solid:	not relevant
Gas:	not relevant

Decomposition temperature:	not determined
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Oxidizing properties

Not oxidising.

Vapour pressure: (at 20 °C)	not determined	DIN EN 13016-1
Vapour pressure: (at 50 °C)	not determined	DIN EN 13016-1

Density (at 23 °C):	1,52 g/cm ³	ISO 2811
Bulk density:	not relevant	

Water solubility: (at 20 °C)	completely miscible
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Solubility in other solvents

The polymer component is soluble in: ketone, ester, Alcohols.

Partition coefficient:	not applicable	
Viscosity / dynamic: (at 23 °C)	285- 507 mPa·s	6 DIN EN ISO 2431
Viscosity / kinematic: (at 23 °C)	188 - 333 mm ² /s	6 DIN EN ISO 2431

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AquaRoute® AQ 4 White

Revision date: 20.09.2017

Product code: CLP_30743

Page 6 of 10

Flow time: (at 23 °C)	30 - 50	6 DIN EN ISO 2431
Vapour density:	not determined	
Evaporation rate: (at 20 °C)	not relevant	
Solvent separation test:	not applicable	
Solvent content:	2,34 %, Water: 21,07 %	

9.2. Other information

Solid content: 76,8 %

Viscosity (25 °C; KU1-10): 80 - 90 K.U.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

10.2. Chemical stability

No risks worthy of mention.

10.3. Possibility of hazardous reactions

No special precautionary measures are necessary.

10.4. Conditions to avoidNo special measures are necessary.
Keep cool. Protect from sunlight.**10.5. Incompatible materials**

acid Lewis-acid Solvent

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

Acute toxicityThere are no data available on the mixture itself.
The statement is derived from the properties of the components.**Irritation and corrosivity**

Irritating to eyes and skin.

Sensitising effects

no danger of sensitization

Carcinogenic/mutagenic/toxic effects for reproductionCMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
No known symptoms to date.**STOT-repeated exposure**

There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Practical experience

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AquaRoute® AQ 4 White

Revision date: 20.09.2017

Product code: CLP_30743

Page 7 of 10

Observations relevant to classification

There are no data available on the mixture itself.

Other observations

Frequently or prolonged contact with skin may cause dermal irritation.

Further information

Preparation not tested. Toxicological data are not available.

SECTION 12: Ecological information**12.1. Toxicity**

There are no data available on the mixture itself.
The statement is derived from the properties of the components.

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

No indication of bio-accumulation potential. On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

There are no data available on the mixture itself.

Further information

Preparation not tested. According to the present state of knowledge negative ecological effects are not expected.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Waste requires monitoring.

Consult the appropriate local waste disposal expert about waste disposal.

Hand over to officially registered waste disposal company.

Waste disposal number of waste from residues/unused products

080112 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish other than those mentioned in 08 01 11

Waste disposal number of used product

080116 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; aqueous sludges containing paint or varnish other than those mentioned in 08 01 15

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AquaRoute® AQ 4 White

Revision date: 20.09.2017

Product code: CLP_30743

Page 8 of 10

Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.
 Completely emptied packings can be re-cycled.
 Retain contaminated washing water and dispose it.
 Hand over to officially registered waste disposal company.

SECTION 14: Transport information
Land transport (ADR/RID)

14.1. UN number: not applicable
14.2. UN proper shipping name: not applicable
14.3. Transport hazard class(es): not applicable
14.4. Packing group: not applicable
 Hazard label: not applicable

Classification code: ----
 Special Provisions: not applicable
 Limited quantity: ----
 Excepted quantity: ----
 Transport category: not applicable
 Hazard No: ----
 Tunnel restriction code: not applicable

Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.1. UN number: not applicable
14.2. UN proper shipping name: not applicable
14.3. Transport hazard class(es): not applicable
14.4. Packing group: not applicable
 Hazard label: not applicable

Classification code: ----
 Special Provisions: not applicable
 Limited quantity: ----
 Excepted quantity: ----

Other applicable information (inland waterways transport)

No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

14.1. UN number: not applicable
14.2. UN proper shipping name: not applicable
14.3. Transport hazard class(es): not applicable
14.4. Packing group: ---
 Hazard label: not applicable

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AquaRoute® AQ 4 White

Revision date: 20.09.2017

Product code: CLP_30743

Page 9 of 10

Marine pollutant: ----
 Special Provisions: not applicable
 Limited quantity: ----
 Excepted quantity: ----
 EmS: ----

Other applicable information (marine transport)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: not applicable
14.2. UN proper shipping name: not applicable
14.3. Transport hazard class(es): not applicable
14.4. Packing group: ----
 Hazard label: ----

Special Provisions: not applicable
 Limited quantity Passenger: ----
 Passenger LQ: ----
 Excepted quantity: ----
 IATA-packing instructions - Passenger: ----
 IATA-max. quantity - Passenger: ----
 IATA-packing instructions - Cargo: ----
 IATA-max. quantity - Cargo: ----

Other applicable information (air transport)

No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Avoid transport on vehicles where the load space is not separated from the driver's compartment.
 Use personal protective equipment as required.
 Keep cool. Protect from sunlight.
 Do not allow to enter into surface water or drains.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

Other applicable information

No information available.

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information

2010/75/EU (VOC): 2,02 % (30,71 g/l)
 2004/42/EC (VOC): 2,02 % (30,71 g/l)
 Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AquaRoute® AQ 4 White

Revision date: 20.09.2017

Product code: CLP_30743

Page 10 of 10

Additional information

The product is classified and labelled according to EC directives or corresponding national laws.

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 3,8,9,15.

Abbreviations and acronyms

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals
CLP: Classification, Labelling and Packaging of Substances and Mixtures
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement International concernant le transport des marchandises Dangereuses par chemin de fer (Regulations concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
VOC: Volatile Organic Components / COV: Composants Organiques Volatiles

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)