



**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Preparation date: 28.08.2026

Version number 1

Revision: 28.08.2026

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

- **1.1 Product identifier**
- **Trade name: AQUA RENO UNIVERSAL**
- **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**
- **Uses advised against**
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Betek Boya ve Kimya Sanayi A.Ş.  
Gebze Organize Sanayi Bölgesi  
Tembelova Alanı 3200. Sokak No:3206  
Tel: 0 (262) 678 30 00  
Gulay.Artiran@betek.com.tr
- **Further information obtainable from:** R&D department
- **1.4 Emergency telephone number:**  
National Poison Information Center: 114  
0090 262 678 30 00

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008 void**
- **Hazard pictograms void**
- **Signal word void**
- **Hazard statements void**
- **Additional information:**  
Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
- **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 substances listed below with nonhazardous additions.

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**· Dangerous components:**

|                                     |                                                                                                                                                                                                                                                                                                                             |         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 112-34-5<br>EINECS: 203-961-6  | 2-(2-butoxyethoxy)ethanol<br>⚠ Eye Irrit. 2, H319                                                                                                                                                                                                                                                                           | 2.5-10% |
| CAS: 57-55-6<br>EINECS: 200-338-0   | 1,2-Propanediol<br>⚠ Acute Tox. 4, H302                                                                                                                                                                                                                                                                                     | ≤2.5%   |
| CAS: 2634-33-5<br>EINECS: 220-120-9 | 1,2-benzisothiazol-3(2H)-one<br>⚠ Acute Tox. 2, H330; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317<br>ATE: LD50 oral: 450 mg/kg<br>LC50/4 h inhalative: 0.21 mg/l<br>Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 % | 0.010%  |

**· 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:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **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.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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 disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** No special measures required.

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- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

##### 112-34-5 2-(2-butoxyethoxy)ethanol

OEL Short-term value: 101.2 mg/m<sup>3</sup>, 15 ppm  
 Long-term value: 67.5 mg/m<sup>3</sup>, 10 ppm  
 IOELV

##### 57-55-6 1,2-Propanediol

OEL Long-term value: 470\* 10\*\* mg/m<sup>3</sup>, 150\* ppm  
 \*total vapour and particulates \*\*particulates

- **Additional information:** The lists valid during the making were used as 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:**  
 The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required
- **Hand protection**  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
 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.
- **Penetration time of glove material**  
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Physical state

Liquid

##### · Colour:

According to product specification

##### · Odour:

Characteristic

##### · Odour threshold:

Not determined

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|                                                                   |                                                                        |
|-------------------------------------------------------------------|------------------------------------------------------------------------|
| · <b>Melting point/freezing point:</b>                            | Undetermined                                                           |
| · <b>Boiling point or initial boiling point and boiling range</b> | 100 °C (7732-18-5 water, distilled, conductivity or of similar purity) |
| · <b>Flammability</b>                                             | Not applicable                                                         |
| · <b>Lower and upper explosion limit</b>                          |                                                                        |
| · <b>Lower:</b>                                                   | Not determined                                                         |
| · <b>Upper:</b>                                                   | Not determined                                                         |
| · <b>Flash point:</b>                                             | Not applicable                                                         |
| · <b>Decomposition temperature:</b>                               | Not determined                                                         |
| · <b>pH</b>                                                       | Not determined                                                         |
| · <b>Viscosity:</b>                                               |                                                                        |
| · <b>Kinematic viscosity</b>                                      | Not determined                                                         |
| · <b>Dynamic:</b>                                                 | Not determined                                                         |
| · <b>Solubility</b>                                               |                                                                        |
| · <b>water:</b>                                                   | Fully miscible.                                                        |
| · <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined                                                         |
| · <b>Vapour pressure:</b>                                         | Not determined                                                         |
| · <b>Density and/or relative density</b>                          |                                                                        |
| · <b>Density:</b>                                                 | Not determined                                                         |
| · <b>Relative density</b>                                         | Not determined                                                         |
| · <b>Vapour density</b>                                           | Not determined                                                         |

### · 9.2 Other information

|                                                                                        |                                               |
|----------------------------------------------------------------------------------------|-----------------------------------------------|
| · <b>Appearance:</b>                                                                   |                                               |
| · <b>Form:</b>                                                                         | Fluid                                         |
| · <b>Important information on protection of health and environment, and on safety.</b> |                                               |
| · <b>Ignition temperature:</b>                                                         | Product is not selfigniting.                  |
| · <b>Explosive properties:</b>                                                         | Product does not present an explosion hazard. |
| · <b>Change in condition</b>                                                           |                                               |
| · <b>Evaporation rate</b>                                                              | Not determined                                |

### · Information with regard to physical hazard classes

|                                                                                    |      |
|------------------------------------------------------------------------------------|------|
| · <b>Explosives</b>                                                                | void |
| · <b>Flammable gases</b>                                                           | void |
| · <b>Aerosols</b>                                                                  | void |
| · <b>Oxidising gases</b>                                                           | void |
| · <b>Gases under pressure</b>                                                      | void |
| · <b>Flammable liquids</b>                                                         | void |
| · <b>Flammable solids</b>                                                          | void |
| · <b>Self-reactive substances and mixtures</b>                                     | void |
| · <b>Pyrophoric liquids</b>                                                        | void |
| · <b>Pyrophoric solids</b>                                                         | void |
| · <b>Self-heating substances and mixtures</b>                                      | void |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | void |
| · <b>Oxidising liquids</b>                                                         | void |
| · <b>Oxidising solids</b>                                                          | void |
| · <b>Organic peroxides</b>                                                         | void |
| · <b>Corrosive to metals</b>                                                       | void |
| · <b>Desensitised explosives</b>                                                   | 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:** 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** Based on available data, the classification criteria are not met.

#### · **LD/LC50 values relevant for classification:**

##### 13463-67-7 titanium dioxide

|            |          |                        |
|------------|----------|------------------------|
| Oral       | LD50     | >20,000 mg/kg (rat)    |
| Dermal     | LD50     | >10,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >6.82 mg/l (rat)       |

- **Primary irritant effect:**
- **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.
- **Respiratory or skin 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** Based on available data, the classification criteria are not met.
- **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**

556-67-2 octamethylcyclotetrasiloxane

List II

### 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** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects** No further relevant information available.

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### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- |                                                                       |                |
|-----------------------------------------------------------------------|----------------|
| · <b>14.1 UN number or ID number</b>                                  |                |
| · <b>ADR, IMDG, IATA</b>                                              | -              |
| · <b>14.2 UN proper shipping name</b>                                 |                |
| · <b>ADR, IMDG, IATA</b>                                              | -              |
| · <b>14.3 Transport hazard class(es)</b>                              |                |
| · <b>ADR, ADN, IMDG, IATA</b>                                         |                |
| · <b>Class</b>                                                        | -              |
| · <b>14.4 Packing group</b>                                           |                |
| · <b>ADR, IMDG, IATA</b>                                              | -              |
| · <b>14.5 Environmental hazards:</b>                                  | Not applicable |
| · <b>14.6 Special precautions for user</b>                            | Not applicable |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable |
| · <b>UN "Model Regulation":</b>                                       | -              |

### 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.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 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.
- **Regulation (EC) No 273/2004 on drug precursors**
- None of the ingredients is listed.

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· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug 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 information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Contact:**

Gülay Artıran

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Email: gulay.artiran@betek.com.tr

Sertifika No: TÜV/11.123.02

Belge Tarihi:01.12.2021

Geçerlilik Tarihi :01.12.2026

· **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

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1