

<b>Safety Data Sheet</b>	<b>LIQUIPURE Mixed Bed Resin</b>	Revision: 15.2
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		Page: 1/4

**SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY**

**1.1. Identification of the Product**

Trade Name: LIQUIPURE Ion Exchange Mixed Bed Resin (in LIQUIPURE Cartridge)  
 Delivery Form: Filled in closed filter cartridge.

**1.2. Relevant Identified Uses of Product**

Demineralising of drinking water (desalination).

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

WTS WasserTechnik & Service  
 Address: Rehwinkel 5, D-34376 Immenhausen  
 Tel.: +49 5673 914743 -0  
 Fax: +49 5673 914743 -8  
 E-mail: info@wts-wasser.com

**1.4. Emergency Phone Nr.**

Tel.: +49 5673 914743 -0

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

The product Filter Cartridge does not comply with the criteria for classification according to Regulation (EC) No 1272/2008. Classification of mixture according to Regulation (EC) No 1272/2008 as amended

**2.2. Label elements**

Ingredients:

Hazard pictograms:



Signal word: Warning

Hazard statements: H319 Causes serious eye irritation.

Precautionary statements:

Prevention:

P264 Wash thoroughly after handling.

P280 Wear eye protection/face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

**2.3. Other hazards**

Not a PBT or vPvB substance or mixture.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1. Substances**

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**3.2. Mixtures**

General information

Chemical Name	%	CAS-Nr. / EG-Nr.	REACH-Reg.-Nr.	Index-Nr.	Notes
Benzene, diethenyl-, polymer with ethenyl-benzene and ethenylethylbenzene, sulfonated <b>Classification:</b> Eye Irrit. 2;H319	20-30	69011-20-7	-	-	-
Benzene, diethenyl-, polymer with ethenyl-benzene and ethenylethylbenzene, chloro-methylated, trimethylamine-quaternized, hydroxide <b>Classification:</b> Eye Irrit. 2;H319	20-30	69011-18-3	-	-	-
Water <b>Classification:</b> -	40-60	7732-18-5 231-791-2	-	-	-

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**

Inhalation: -

Skin contact: Wash off with plenty of water.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If eye irritation persists, get medical advice/attention.

Ingestion: Rinse mouth thoroughly. Never give liquid to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention if any discomfort continues.

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

Eye contact: Contact may cause irritation with redness, tearing, pain, and/or blurred vision.

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

Gemäß Symptomen behandeln.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media**

Choose extinguishing media according to surroundings: foam, carbon dioxide, dry powder or water fog.

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

The product is not flammable. By heating and fire, harmful vapours/gases may be formed.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing. Do not breathe fumes. Move containers from fire area if you can do so without risk.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

If contact with ion exchanger mixed bed resin is expected (e.g. during cleaning after unpurposeful destruction of cartridge), protective gloves should be used as precaution.

**6.2. Environmental precautions**

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**6.3. Methods and material for containment and cleaning up**

Sweep up or vacuum up spillage and collect in suitable container for disposal.

**6.4. Reference to other sections**

Personal protection: see section 8. Waste disposal: see section 13.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Do not open the cartridge.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (See Section 10).

**7.3. Specific end use(s)**

Ion exchange for demineralisation of drinking water.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1. Control parameters**

No exposure limits noted for cartridge or ingredients.

**8.2. Exposure controls**

For handling of the cartridge, no personal protective equipment is required.

For handling of the filling: wear safety goggles, protective gloves and appropriate protective clothing in order to avoid eye contact and/or repeated or enduring skin contact.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

*The following information refers to the mixed bed resin contained in the cartridge!*

Appearance: dark blue with brown, white and cream contents (with indicator)  
or light brown with white and cream contents (without indicator).

Physical state: solid.

Form: beads.

Odour: odourless.

Geruchsschwelle: -

pH: -

Melting point/freezing point: n.a.

Boiling point and range: n.a.

Flash point: n.a.

Evaporation rate: n.a.

Flammability(solid, gas): n.a.

Upper/lower flammability or explosive limits: n.a.

Vapour pressure: n.b.

Vapour density: -

Relative density: 1.05 – 1.28

Solubility: -

Partition coefficient (n-octanol/water): -

Auto-ignition temperature: n.a.

Decomposition temperature: n.a.

Viscosity: n.a.

Explosive properties: none.

Oxidising properties: none.

**9.2. Other information**

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**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

The product is stable and non reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid**

Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.

**10.5. Incompatible materials**

Strong oxidising agents. Nitric acid.

**10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Occupational exposure to the substance or mixture may cause adverse effects.

**Information on likely routes of exposure**

Inhalation: Not expected under normal conditions of intended use.

Skin contact: May cause mild skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May cause discomfort if swallowed.

11.1. No acute toxicity. Occupational exposure to the substance or mixture may cause adverse effects.

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

n.b.

**12.2. Persistence and degradability**

n.b.

**12.3. Bioaccumulative potential**

No bioaccumulation.

**12.4. Mobility in soil**

n.b.

**12.5. Results of PBT and vPvB assessment**

Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects**

The product is not classified as environmentally hazardous.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Dispose of in accordance with local regulations. Package (PP foil) should be taken to an approved waste handling site for recycling.

**SECTION 14: TRANSPORT INFORMATION**

No dangerous goods.

ADR / RID / ADN / IATA / IMDG: Not regulated as dangerous goods.

**14.1. UN Number**

Not regulated as dangerous goods.

**14.2. UN proper shipping name**

Not regulated as dangerous goods.

**14.3. Transport hazard class**

Not regulated as dangerous goods.

**14.4. Packing group**

Not regulated as dangerous goods.

**14.5. Environmental hazards**

Not regulated as dangerous goods.

**14.6. Special precautions for user**

Not regulated as dangerous goods.

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

Not applicable.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not listed.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment available.

**SECTION 16: OTHER INFORMATION**

This mixture is exempted from Registration according to the provisions of Title II and VI and Article 2(9) of REACH.

All the given information is based on our current knowledge. It describes our products with regard to safety requirements and is not designed to guarantee any particular characteristics. Without our written permission, this document (all or part) may not be copied or duplicated.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives.