

Safety data sheet
in accordance with Regulation (EC) No.
1907/2006 (REACH) and Regulation (EU)
2020/878
ULTRA-PURE

Version number: GHS 1.0

Date of creation: 11/15/2021

SECTION 1: Identification of the substance or mixture and of the company

1.1 Product identifier

Trade name	ULTRA-PURE / Mixed bed resin filter medium
Registration number (REACH)	-----
EINECS number	-----
CAS number	-----
UFI CODE	US00-Q0YY-5001-S3WG
Other designations	
Product number	UP100

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

Relevant identified uses	Consumer uses Mixed bed resin for the production of ultrapure water for marine or freshwater aquariums
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1.3 Details of the supplier providing the safety data sheet

ARKA Biotechnologie GmbH
Mühlach 53-55
90552 Röthenbach
Germany

Phone: +49 (0)911 5698610 00
Fax: +49 (0)911 5698610 29
Email (qualified person)

info@arka-biotech.de

1.4 Emergency

Emergency information service	Poison emergency hotline Munich Available by phone 24 hours a day, 7 days a week Phone: +49 (0)89 19240
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SECTION 2: Potential hazards

2.1 Classification of the mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)
Serious eye damage, Category 1 H318: Causes serious eye damage

2.2 Labeling according to Regulation (EC) No. 1272/2008 (CLP)



Signal word: Danger

H statements:

H318: Causes serious eye damage.

P statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

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P280: Wear eye protection/face protection

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P501: Dispose of contents/container in accordance with local regulations.

Hazardous component(s) for labeling:

Benzene, diethyl-, polymer with ethenylbenzene and ethenylethylbenzene, chlorometylated, trimethylamine-quaternized, hydroxide

Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulphonated

2.3 Other hazards

This mixture does not contain any components in concentrations that are classified as persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Substance name Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chlorometylated, trimethylamine-quaternized, hydroxide

Registration number (REACH)	-----
EC number	-----
CAS number	69011-18-3
Composition of the mixture	20%-50
Classification	H318

Substance name	Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulphonated
EC number	-----
CAS	69011-20-7
Content of mixture	10-30
Classification	H319

SECTION 4: First aid measures

4.1 Description of first aid measures General remarks

Immediately remove contaminated, soaked clothing. If symptoms occur or in case of doubt, seek medical advice. If unconscious, place in the recovery position and do not administer anything by mouth. Show this safety data sheet to the doctor treating the patient.

After inhalation

Ensure fresh air. Consult a doctor if symptoms persist.

After contact with skin

Wash skin with soap and plenty of water/shower. If symptoms persist, consult a doctor.

After contact with eyes

Small splashes in the eyes can cause irreversible tissue damage and blindness. In case of contact with eyes, rinse immediately with plenty of water and consult a doctor. Continue rinsing eyes during transport to the doctor/hospital. Remove contact lenses. Protect uninjured eye. Keep eyes wide open while rinsing. If eye

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irritation persists, consult a specialist.

After ingestion

If swallowed, immediately contact a POISON CONTROL CENTER or doctor. Move the affected person to fresh air. Rinse mouth with water. Keep the affected person warm and calm. If the victim is conscious, give small amounts of water to drink. Keep airways open. If nausea occurs, do not allow further drinking, as vomiting can be dangerous. Do NOT induce vomiting without medical advice.

4.2 Most important acute and delayed symptoms and effects

Causes serious eye damage.

4.3 Indications for immediate medical attention or special treatment

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, foam, alcohol-resistant foam, ABC powder. Extinguishing measures must be adapted to the surroundings.

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture

Do not allow water used to fight the fire to enter the groundwater or waterways.

Hazardous combustion products

No further relevant information available.

5.3 Firefighting instructions

Fight fire with standard precautions from a safe distance. Only enter the danger zone with self-contained breathing apparatus. Avoid skin contact by maintaining a safe distance or wearing suitable protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personnel not trained for emergencies

Avoid skin and eye contact. Ensure good ventilation and a .

Emergency responders

Wear respiratory protection if exposed to vapors, dust, aerosols, and gases. Personal protective equipment: see Section 8.

6.2 Environmental protection measures

Prevent penetration into the sewage system or into surface and groundwater.

6.3 Methods and material for containment and cleaning

Instructions on how to prevent spilled materials from spreading

Cover drains. Observe any material restrictions! (See Section 7 or 10). Collect mechanically.

Further information regarding spillage and release

Dispose of in suitable containers.

6.4 Reference to other sections

Hazardous combustion products: see Section 5. Personal protective equipment: see Section 8.

Incompatible materials: see Section 10. Disposal information: see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Information on general hygiene in the workplace

For personal protective equipment, see Section 8. Wash hands after use. Do not eat, drink, or smoke in areas where work is being carried out. Remove contaminated clothing and protective equipment before entering areas where food is eaten . Do not store food and beverages together with chemicals. Do not use containers that are normally intended for food storage for chemicals. Keep away from food, soak, and animal feed.

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7.2 Conditions for safe storage, taking into account incompatibilities

Storage class 11, combustible solids.
Recommended storage temperature: -20 to 40°C
Keep container tightly closed. Store in a dry place protected from sunlight.

Incompatible substances or mixtures

Observe storage compatibility information.

7.3 Specific end uses

See section 1.2.

SECTION 8: Exposure controls/personal protective equipment

8.1 Parameters to be monitored

National limit values

No data available

8.2.1 General protective and hygiene measures

Keep away from food, beverages, and animal feed.
Wash hands before breaks and at the end of work.
Avoid contact with eyes and skin.

8.2.2 Individual protective measures (personal protective equipment)

Eye/face protection

Wear safety goggles/face protection.

Skin protection

Wear protective clothing. Remove contaminated clothing and wash before reuse.

Hand protection

Wear protective gloves. The protective gloves used must comply with the specifications of EC Directive 89/686/EEC and the resulting standard EN 374.

Other protective measures

The selection of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer. Since the product is a preparation of several substances, the resistance of glove materials cannot be predicted and must therefore be checked before use. Wash hands thoroughly after use.

Respiratory protection

Respiratory protection is required in the event of aerosol or mist formation. Type: A (against organic gases and vapors with a boiling point > 65 °C, identification color: brown). The wearing time limits according to GefStoffV in conjunction with the rules for the use of respiratory protective equipment (BGR 190) must be observed.

8.2.3 Limitation and monitoring of environmental exposure

Prevent penetration into the sewer system or into surface and groundwater.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance

Physical state	Solid / beads
Color	Brownish
Odor	Chemical odor

Other physical and chemical parameters

pH	6-9
Melting point/freezing point	No data available
Boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gaseous)	No data available
Explosion limits of dust/air mixtures	No data available
Vapor pressure	No data available
Density	1.17 g/cm ³ (20°C)
Bulk density	752 kg/m ³

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Solubility(ies)	
Water solubility	insoluble
Partition coefficient	
n-Octanol/water (log KOW)	No data available
Auto-ignition temperature	> 500°C
Viscosity	Solid / beads
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

Spontaneous combustion temperature >
500°C

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known when used as intended.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions occur under normal storage conditions and normal use. Stable under specified storage conditions. No special hazards to mention.

10.4 Conditions to avoid

Take measures against electrostatic charging.

10.5 Incompatible materials

Oxidizing agents.

10.6 Hazardous decomposition products

No reasonably foreseeable hazardous decomposition products are known to arise during use, storage, spillage, or heating.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification according to GHS (1272/2008/EC, CLP) Acute toxicity

Not classified according to the available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Not classified based on available information.

Summary of the assessment of CMR properties

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

Specific target organ toxicity (STOT)

Not classified based on available information.

Aspiration hazard

Not classified based on the available information.

Other information

Based on our experience and information, the product does not cause any adverse health effects when handled properly. Precautionary measures must be observed.

SECTION 12: Environmental information

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12.1 Toxicity

No data available

12.2 Bioaccumulative potential

Not applicable.

12.3 Mobility in soil

No data available.

12.2 Results of PBT and vPvB assessment

Not applicable.

12.3 Other adverse effects

As the product is insoluble in water, no ecological studies have been conducted.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product residues must be disposed of in accordance with Waste Directive 2008/98/EC and national and regional regulations.

Information relevant to waste treatment

Store only in the original container.

Information relevant to disposal via wastewater

Do not pour waste into the drain. Do not contaminate standing or flowing water with chemicals or packaging material. Hand over to an approved waste disposal company.

Waste treatment of containers/packaging

Completely emptied packaging can be recycled.

Contaminated packaging must be treated in the same way as the substance.

Comments

Please observe the relevant national or regional regulations. Waste must be separated so that it can be treated separately by municipal or national waste disposal facilities.

SECTION 14: Transport information

14.1 UN number

Not classified as dangerous goods according to national and international transport regulations up to a container size of 5000 ml $\geq$ 4.8 kg.

14.2 Proper UN shipping name

Not classified as dangerous goods.

14.3 Transport hazard classes

Class

Not classified as dangerous goods.

14.4 Packaging group

Not classified as dangerous goods.

14.5 Environmental hazards

None (not hazardous to the environment according to dangerous goods regulations)

14.6 Special precautions for the user

Not classified as dangerous goods

Risk of serious eye damage

Sensitive to frost below -20°C

Keep away from food and beverages

14.7 Bulk transport in accordance with Annex II of the MARPOL Convention and in accordance with the IBC Code

Not applicable to product in delivery condition.

SECTION 15: Regulatory information

15.1 Regulations on safety, health, and environmental protection/specific legal provisions for the substance or mixture

Labeling according to Regulation (EC) No. 1272/2008

The product is classified and labeled according to the CLP Regulation (see Section 2).

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Hazard statements

See Section 2

Water hazard class

WGK 1 (self-classification)

Slightly hazardous to water

15.2 Substance safety assessment

Not applicable.

SECTION 16: Other information

Abbreviations and acronyms

Abbreviation	Descriptions of abbreviations used
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Occupational exposure limit
CAS	Chemical Abstracts Service (database of chemical compounds and their unique identifier, the CAS Registry Number)
CLP	Regulation (EC) No. 1272/2008 on the classification, labeling, and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or Toxic for Reproduction
DFG	German Research Foundation MAK and BAT Values List, Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Workplace, Wiley-VCH, Weinheim
DMEL	Derived Minimal Effect Level (derived exposure level with minimal impairment)
DNEL	Derived No-Effect Level
GHS	Globally Harmonized System of Classification and Labelling of Chemicals, developed by the United Nations
Index No.	The index number is the identification code specified in Annex VI, Part 3 of Regulation (EC) No. 1272/2008.
KZW	Short-term value
LGK	Storage class according to TRGS 510, Germany
MARPOL	International Convention for the Prevention of Pollution from Ships (abbreviation of "Marine Pollutant")
PBT	Persistent, bioaccumulative, and toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorization, and Restriction of Chemicals
SMW	Shift average
TRGS	Technical Rules for Hazardous Substances (Germany)
TRGS 900	Occupational exposure limits (TRGS 900)
VbF	Regulation on flammable liquids (Austria)
vPvB	Very Persistent and Very Bioaccumulative

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Important literature and data sources

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU-GHS)

List of relevant phrases (code and wording as specified in chapters 2 and 3)

Code	Text
H318	Causes serious eye damage

Disclaimer

The information provided is based on our current knowledge. This SDS has been compiled exclusively for this product and is intended solely for this product.