

RESIN-PURE

Version number: GHS 1.0

Date of creation: 15.11.2021

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

1.1 Product identifier

Trade name	Resin-Pure / mixed bed resin
Registration number (REACH)	-----
EINECS number	-----
CAS number	-----
	UFI-CODEUS00-Q0YY-5001-S3WG

Other designations

product number	RPLG, RF300, RF500, RF1900, RFR1900
----------------	-------------------------------------

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

Relevant identified uses	Uses by consumers Mixed bed resin for the production of ultrapure water for marine or freshwater aquariums
--------------------------	---------------------------------------------------------------------------------------------------------------

1.3 Details of the supplier of the safety data sheet

ARKA Biotechnologie GmbH
Mühlbach 53-55 90552
Röthenbach Germany

Phone: +49 (0)911 5698610 00
Fax: +49 (0)911 5698610 29
e-mail (knowledgeable person)

info@arka-biotech.de

1.4 Emergency number

Emergency information service

Poison control center Munich
Available by phone 24h / 7 days a week Phone:
+49 (0)89 19240

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-phrases:

H318: Causes serious eye damage.

P-phrases:

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

P102: Keep out of the reach of children.

RESIN-PURE

Version number: GHS 1.0

Date of creation: 15.11.2021

P280: Wear eye/face protection

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if possible. Continue rinsing. Immediately call a POISON CENTER / doctor.

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

Hazard-determining component(s) of labeling:

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

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

2.3 Other dangers

This mixture contains no components in concentrations that are classified as either 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
Content of the mixture	20%-50%
Classification	H318

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

SECTION 4: First aid measures

4.1 Description of first aid measures General notes

Remove soiled, soaked clothing immediately. If symptoms occur or in case of doubt, seek medical advice. If unconscious, place in recovery position and do not administer anything by mouth. Show this safety data sheet to the attending physician.

After inhalation

Provide fresh air. If symptoms persist, consult a doctor.

After contact with the skin

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

After contact with the 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 seek medical advice. Continue to rinse eyes during transportation to doctor / hospital. Remove contact lenses. Protect uninjured eye. Keep eyes wide open while rinsing. If eye

RESIN-PURE

Version number: GHS 1.0

Date of creation: 15.11.2021

irritation persists, consult a specialist.

After ingestion by swallowing

If swallowed, immediately call a POISON CENTER or doctor. Remove affected person to fresh air. Rinse mouth with water. Keep victim warm and quiet. If the victim is conscious, give small amounts of water to drink. Keep airways open. In case of nausea, do not allow the victim to continue drinking, as vomiting can be dangerous. DO NOT induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.

4.3 Information on immediate medical assistance or special treatment

No information available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing agent

Suitable extinguishing agents

Water, foam, alcohol-resistant foam, ABC powder. Adapt extinguishing measures to the surroundings.

Unsuitable extinguishing agents

None known.

5.2 Special hazards arising from the substance or mixture

Do not allow run-off water from the fire-fighting system to enter the water or watercourses.

Hazardous combustion products

No further relevant information available.

5.3 Instructions for firefighting

Fight the fire with the usual precautions from an appropriate distance. Stay in the danger zone only 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

Staff not trained for emergencies

Avoid contact with skin and eyes. Ensure good ventilation.

Emergency services

Respiratory protective equipment must be worn when exposed to vapors, dusts, aerosols and gases.

Personal protective equipment: see section 8.

6.2 Environmental protection measures

Prevent the product from entering the sewage system or surface and ground water.

6.3 Methods and material for retention and cleaning

Instructions on how to prevent spilled materials from spreading

Cover the drainage systems. Observe possible material restrictions! (Information in section 7 or 10). Pick up mechanically.

Further information on 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 considerations: see section 13.

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

Recommendations

Advice on general hygiene in the workplace

Personal protective equipment see section 8 Wash hands after use. Do not eat, drink or smoke in areas where work is carried out. Remove contaminated clothing and protective equipment before entering eating areas. Do not ~~use~~ eat and drink together with chemicals. Do not use containers for chemicals that are normally intended for holding food. Keep away from food, drinks and animal feed.

RESIN-PURE

Version number: GHS 1.0

Date of creation: 15.11.2021

7.2 Conditions for safe storage, taking into account incompatibilities

Storage class 11, flammable 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 instructions.

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, drink 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 to be 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 features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. Wash hands thoroughly after use.

Respiratory protection

Respiratory protection is required for: Aerosol or mist formation. Type: A (against organic gases and vapors with 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 devices (BGR 190) must be observed.

8.2.3 Limiting and monitoring environmental exposure

Prevent penetration into the canal lization or into surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance

Aggregate state	solid / pearls
color	brownish
Odor	Chemical odor

Other physical and chemical parameters

pH value	6-9
Melting point/freezing point	No data available
Initial 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	

RESIN-PURE

Version number: GHS 1.0

Date of creation: 15.11.2021

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

9.2 Other information

Auto-ignition temperature > 500°C

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions known if handled as directed.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions will occur under normal storage conditions and use. Stable under specified storage conditions. No special hazards to be mentioned.

10.4 Conditions to avoid

Take measures against electrostatic charging.

10.5 Incompatible materials

Oxidizing agent.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products formed during use, storage, spillage and heating are not known.

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 information available.

Corrosive/irritant effect on the skin

Not classified according to the information available.

Serious eye damage/eye irritation

Causes serious eye damage.

Sensitization of the respiratory tract or skin

Not classified according to the information available.

Summary of the assessment of CMR properties

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

Specific target organ toxicity (STOT)

Not classified according to the information available.

Aspiration hazard

Not classified according to the information available.

Other information

According to 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

RESIN-PURE

Version number: GHS 1.0

Date of creation: 15.11.2021

12.1 Toxicity

No data is available

12.2 Bioaccumulative potential

Not applicable.

12.3 Mobility in soil

No data is available.

12.2 Results of the PBT and vPvB assessment

Not applicable.

12.3 Other harmful effects

As the product is insoluble in water, no ecological tests were carried out.

SECTION 13: Disposal instructions

13.1 Waste treatment processes

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

Information relevant for waste treatment

Store only in the original container.

Information relevant for disposal via wastewater

Do not pour waste down the drain. Do not contaminate standing or flowing water with chemicals or packaging material. Hand over to an authorized 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.

Notes

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

SECTION 14: Transport information

14.1 UN number

No dangerous goods within the meaning of national and international transport regulations up to a container size of 5000ml ≥ 4.8kg.

14.2 UN proper 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

No dangerous goods to be transported

Risk of serious eye damage

Sensitive to frost from -20°C Keep away from food and beverages

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

Not applicable to product as delivered.

SECTION 15: Legislation

15.1 Safety, health and environmental regulations/legislation specific 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)

Hazard warnings

RESIN-PURE

Version number: GHS 1.0

Date of creation: 15.11.2021

See section 2

Water hazard class

WGK 1 (self-classification) slightly hazardous to water

15.2 Chemical safety assessment

Not applicable.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of the abbreviations used
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (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 key, the CAS Registry Number)
CLP	Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction (carcinogenic, mutagenic or toxic for reproduction)
DFG	German Research Foundation List of MAK and BAT values, Senate Commission for the Examination of Health Hazardous Substances, Wiley-VCH, Weinheim
DMEL	Derived minimal effect level (derived exposure level with minimal impairment)
DNEL	Derived no-effect level (derived exposure level without impairment)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
Index no.	The index number is the identification code given in Part 3 of Annex VI to 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 Pollu- tant")
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration (estimated no-effect concentration)
ppm	Parts per million (parts per million)
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals (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	Ordinance on flammable liquids (Austria)
vPvB	Very Persistent and very Bioaccumulative (very persistent and very bioaccumulative)

RESIN-PURE

Version number: GHS 1.0

Date of creation: 15.11.2021

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 indicated in chapters 2 and 3)

Code	Text
H318	Causes serious eye damage

Disclaimer

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

RESIN-PURE

Version number: GHS 1.0

Date of creation: 15.11.2021
