

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Printing date 01.07.2024

Version number 2 (replaces version 1)

Revision: 01.07.2024

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

- **1.1 Product identifier**
- **Trade name:** **AQA therm SRC-Harz**
- **UFI:** N301-K0V3-A00X-9XYG
- **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** Ion exchange resin.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BWT Holding GmbH
Walter-Simmer-Straße 4
A - 5310 Mondsee
AUSTRIA
Tel.: +43/6232/5011-0
Fax: +43/6232/4058
email: office@bwt.at
- **Further information obtainable from:**
Abteilung F&E - Chemikalienbeauftragte(r)
Tel.: +43/6232/5011-1893
+43/6232/5011-1427
email: msds-info@bwt-group.com
- **1.4 Emergency telephone number:**
Poison center Vienna
Tel.: +43/1-406 43 43

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized, hydroxide
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulphonated
- **Hazard statements**
H318 Causes serious eye damage.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· Determination of endocrine-disrupting properties

This product does not contain ingredients with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% (w/w) or more.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 69011-18-3	Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized, hydroxide	≥25-≤50%
	☞ Eye Dam. 1, H318	
CAS: 69011-20-7	Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulphonated	≥10-≤50%
	☞ Eye Dam. 1, H318	

· **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:

Protection of first aiders: No measures should be taken that are associated with personal risk or that have not been adequately trained.

It can be dangerous for the person providing first aid to perform mouth-to-mouth resuscitation.

Do not leave affected persons unattended.

· After inhalation:

Move the affected person to fresh air and keep them still in a position that makes breathing easier.

If breathing is absent or irregular or if respiratory arrest occurs, artificial respiration or oxygen administration must be initiated by trained personnel.

Seek medical treatment in case of complaints.

If unconscious, place in recovery position and seek medical assistance immediately.

Keep airways open.

Loosen tight-fitting items of clothing (e.g. collar, tie, belt or waistband).

If combustion products are inhaled, symptoms may be delayed.

The affected person may need to remain under medical observation for 48 hours.

· After skin contact:

In case of contact with skin, wash off immediately with plenty of water.

Chemical burns must be treated immediately by a doctor.

Remove contaminated clothing and shoes.

Wash contaminated clothing before reuse.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Remove any contact lenses if possible.

Lift the eyelids occasionally while rinsing.

Chemical burns must be treated immediately by a doctor.

· After swallowing:

Rinse mouth with water (only if casualty is conscious).

Let them drink small amounts of water.

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Seek medical treatment.

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

Symptoms: For more information on symptoms and health hazards, see point 11.

Risks: Causes serious eye damage.

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

Treatment: See section 11 for more detailed information on health effects and symptoms.

It can be dangerous for the person providing first aid to perform mouth-to-mouth resuscitation.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Water spray (mist)

Foam

Fire-extinguishing powder

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

Carbon dioxide (CO₂)

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Firefighters should wear appropriate protective clothing and self-contained breathing apparatus with full face protection operated in positive pressure mode.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

No measures should be taken that are associated with personal risk or that have not been sufficiently trained.

Do not touch or walk on the spilled substance.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Avoid release into the environment.

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Remove the container from the outlet area.

Vacuum up or sweep up material and place in appropriately labelled waste containers.

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

· **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**

Do not get in the eyes, in the mouth or on the skin.

Eating, drinking and smoking are prohibited in areas where this substance is used, stored or processed.

Empty containers may contain product residues, therefore all instructions as for the product must be observed.

Store in the original container or an approved replacement container made of a compatible material. Keep tightly closed when not in use.

People handling the substance must wash their hands and face before eating, drinking or smoking.

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*Put on appropriate personal protective equipment.**Thorough dedusting.*· **Information about fire - and explosion protection:** *No special measures required.*· **Handling:***Hygiene measures:**Wash hands, forearms and face thoroughly after handling chemical products and at the end of the working day, as well as before eating, smoking and using the toilet.**Wash contaminated clothing before reuse.**Ensure that eyewash stations and safety showers are available near the work area.**Choose appropriate methods to remove contaminated clothing.*· **7.2 Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:***Protect from heat and direct sunlight.**Store tightly closed, cool and dry, in a well-ventilated place.**Store only in the original receptacle.**Keep the container closed when not in use.**Do not store together with incompatible substances (see section 10) and do not store with food and beverages.**Take measures against electrostatic discharges.**Store in accordance with local regulations.*· **Information about storage in one common storage facility:** *Store away from foodstuffs.*· **Further information about storage conditions:***Recommended storage temperature from -10 to 40 °C.**Keep container tightly sealed.*· **Storage class:** 11· **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:***The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*· **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:***Good standard room ventilation should be sufficient to limit workers' exposure to air pollutants.**Take off contaminated clothing and wash it before wearing it again.**Keep away from foodstuffs, beverages and feed.**Immediately remove all soiled and contaminated clothing**Wash hands before breaks and at the end of work.**Avoid contact with the eyes and skin.*· **Respiratory protection:** *Dust mask if there is a risk of dust formation.*· **Hand protection***Change gloves immediately after product contamination and dispose of them properly.*

Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.**Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

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- **Material of gloves**

PVC gloves

Nitrile rubber, NBR

Chloroprene rubber, CR

Wearing time < 60 min

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**



Tightly sealed goggles

- **Body protection:** Wear suitable protective clothing when working.

*

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Solid

- **Colour:**

Light, black, brown

- **Odour:**

Characteristic

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Undetermined.

- **Boiling point or initial boiling point and boiling range**

Undetermined.

- **Flammability**

Not determined.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

>150 °C

- **Decomposition temperature:**

Not determined.

- **pH at 20 °C**

6-9 (10%)

- **Viscosity:**

- **Kinematic viscosity**

Not applicable.

- **Dynamic:**

Not applicable.

- **Solubility**

- **water:**

Insoluble.

- **Partition coefficient n-octanol/water (log value)**

Not determined.

- **Vapour pressure:**

Not applicable.

- **Density and/or relative density**

- **Density at 20 °C:**

1,1 g/cm³

- **Relative density**

Not determined.

- **Bulk density:**

650-750 kg/m³

- **Vapour density**

Not applicable.

- **Particle characteristics**

See section 3.

- **9.2 Other information**

- **Appearance:**

- **Form:**

Pearls

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- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent content:**
- **Solids content:** 100,0 %
- **Change in condition**
- **Evaporation rate** Not applicable.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** The product is chemically stable.
- **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**
Hazardous reactions are possible with strong oxidising agents.
Take measures against electrostatic charges.
- **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:

CAS: 69011-18-3 Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized, hydroxide

Oral LD50 >5.000 mg/kg (rat)

CAS: 69011-20-7 Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulphonated

Oral LD50 >5.000 mg/kg (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye damage.

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- **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
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None of the ingredients is listed.

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**
- The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Other information:**
- Ecotoxicological data are not available. No particular effects or hazards known. Due to the insolubility of the substance in water, no data on toxicity in the aqueous environment are available.
- **Additional ecological information:**
- **General notes:**
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
- Check reusability.
- Where possible, reuse (recycling) is preferable to disposal or incineration.
- Pack or seal product waste and uncleaned empty containers, label them and dispose of or reuse them in accordance with national regulations.
- Consult the supplier for larger quantities.
- Do not contaminate standing or flowing water with chemicals or packaging material.
- Avoid spreading and run-off of released material and contact with soil, water, drains and sewers.
- For disposal within the EU, the respective valid waste code according to the European Waste Catalogue (EWC) must be used.
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

11 01 16*	saturated or spent ion exchange resins
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HP4	Irritant - skin irritation and eye damage
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- **Uncleaned packaging:**
- **Recommendation:**
*The generation of waste should be avoided or minimised wherever possible.
 If recycling is not possible, waste must be disposed of in accordance with local regulations.*

SECTION 14: Transport information

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

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized, hydroxide
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulphonated
- **Hazard statements**
H318 Causes serious eye damage.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **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.

- **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.

- **National regulations:**

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **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.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Relevant phrases**

H318 Causes serious eye damage.

- **Date of previous version:** 19.06.2024

- **Version number of previous version:** 1

- **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

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

- *** Data compared to the previous version altered.**

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