SAFETY DATA SHEET

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

1.1. Product identifier

Designation of the mixture: **resin for water purifiers**
Issue date: April 16th 2021
Version number: 01

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

Identified uses: Ion Exchange, Absorbent and/or Catalyst
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier
DiaSys Technologies SARL
Cap Gamma
1682 rue de la Valsiere
34790-GRABELS
France

1.4. Emergency phone number +33 411950340

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.

Hazard summary Causes serious eye irritation. Occupational exposure to the substance or mixture may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

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.
Storage Store away from incompatible materials.
Disposal Dispose of waste and residues in accordance with local authority requirements.
Supplemental label information None.
2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
General information

Chemical name:	Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated
Relative quantity:	20-30%
Classification:	Eye Irritation Category 2 H319
Chemical name:	Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized, hydroxide
Relative quantity:	20-30%
Classification:	Eye Irritation Category 2 H319
Chemical name:	Water
Relative quantity:	**4**0-60%
Classification:	**N/A**

List of abbreviations and symbols that may be used above
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures
Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion: Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

4.3. Indication of any immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards: This product is not flammable. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.1. Extinguishing media
suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters
Special protective equipment for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures: Use water spray to cool unopened containers.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders: Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up
Large Spills: Dike the spilled material, where this is possible. Sweep up or vacuum up spillage and collect in suitable container for disposal. Following product recovery, flush area with water.
Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

6.4. Reference to other sections: For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling: Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities: Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

7.3. Specific end use(s): Ion Exchange, Absorbent and/or Catalyst

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.
Derived no effect levels (DNELs)	Not available.
Predicted no effect concentrations (PNECs)	Not available.

8.2. Exposure controls

Appropriate engineering controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection	Protective gloves should be worn to prevent skin contact.Breakthrough time >10 min(EN 374-3 Class1).
- Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Solid.
Form	Beads.
Colour	Mixture of white, cream, amber and brown beads
Odour	Odourless.
pH	Acidic / Alkaline
Relative density	1.05 - 1.28
Solubility(ies)	Insoluble.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

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: Material is stable under normal conditions.
10.3. Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid: Contact with incompatible materials. Heat, sparks, flames, elevated temperatures.
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

General information: Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure
Inhalation: No adverse effects due to inhalation are expected.
Skin contact: No adverse effects due to skin contact are expected.
Eye contact: Causes serious eye irritation.
Ingestion: May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Acute toxicity: Not expected to be acutely toxic.
Serious eye damage/eye irritation: Causes serious eye irritation.
Aspiration hazard: Due to the physical form of the product it is not an aspiration hazard.
Other information: No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity: Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
12.2. Persistence and degradability: No data is available on the degradability of any ingredients in the mixture.
12.3. Bioaccumulative potential: No data available.
12.4. Mobility in soil: The product is insoluble in water.
12.5. Results of PBT and vPvB assessment: This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Residual waste: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:Disposal instructions).
Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code: The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions: Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR 14.1. - 14.6.: Not regulated as dangerous goods.
RID 14.1. - 14.6.: Not regulated as dangerous goods.
AND 14.1. - 14.6.: Not regulated as dangerous goods.
IATA 14.1. - 14.6.: Not regulated as dangerous goods.
IMDG 14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II: Not listed.
Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I : Not listed.
Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I-Part 1,Annex I-Part 2 Annex I-Part 3, Annex V: Not listed.
Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry: Not listed.
Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA: Not listed.

Authorisations: Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization: Not listed.

Restrictions on use:
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use: Not listed.
Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at Work: Not listed.

Other EU regulations directive 2012/18/EU on major accident hazards involving dangerous substances: Not listed.

Other regulations: This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.

National regulations: Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

15.2. Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations
DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.
ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland waterways.
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
IMDG Code: International Maritime Dangerous Goods Code.
MARPOL: International Convention for the Prevention of Pollution from Ships.
References ECHA CHEM

Information on evaluation method leading to the classification of mixture: The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available

Full text of any H-statements not written out in full under Sections 2 to 15: H319 Causes serious eye irritation.
Training information: Follow training instructions when handling this material.
Further information: This mixture is exempted from Registration according to the provisions of Title II and VI and Article 2(9) of REACH.

Disclaimer: The information provided in this safety data sheet is based on current knowledge about the product and current legal requirements and standards. It relates specifically to health, safety and environmental requirements and standards, may not identify all hazards associated with the product or its uses or misuses, does not signify any warranty with regard to the properties of the product, and only applies when the product is used for the purposes indicated in section 1. This product is not sold as suitable for other purposes and such other usage may cause risks not mentioned in this safety data sheet.