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Section 1. Product Identification: DIAION CR20, Polyamine-type Chelating Resin, 300-1180µm
Part Numbers: Diaion CR20

Section 2. Hazardous Identification

Class Name of Hazardous Chemicals for SDS:

Not applicable

Physical and Chemical Hazards: Under certain conditions, strong oxidizing agents such as nitric acid could cause slight copolymer degradation up to explosive reaction.

Section 3. Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>%</u>
Diethenylbenzene, polymer with N-(2-aminoethyl)-N-[(ethenylphenyl)methyl]-1,2-ethanediamine	65945-33-7	30-50

Remaining portion is water.

Section 4. First Aid Measures

Skin: Wash material off skin with soap and water. Seek medical attention if irritation occurs.
Eyes: Flush with copious amounts of water for 15 minutes. Seek medical attention if irritation occurs.
Ingestion: Ingestion is not likely in the physical form. Seek medical attention if gastrointestinal symptoms develop.
Inhalation: Possibility of inhalation is low. The resin particle size is approx. 0.3-1.2 mm and the resin contains no fine particles.

Section 5. Fire Fighting Measures

General Hazard: Not considered to be a fire hazard.

Extinguishing Media: Carbon dioxide, dry chemical, water spray.

Extinguishing Media Which Must Not be Used for Safety Reasons: None

Special Fire-fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH, and full protective gear. Keep personnel removed from and upwind of fire. Keep unnecessary people away.

Hazardous Combustion Products: Carbon monoxide, nitrous oxide, hydrogen chloride.

Section 6. Accidental Release Measures

Personal Precautions: Resins may be slippery. Do not step on the spilled resins. Evacuate non-essential personnel.

Environmental Precautions: Prevent spilled resins from entering sewers or waterways.

Methods for Clean Up: Sweep up, place in closed containers and have them disposed of by experts. Dispose in a facility for non-hazardous wastes. Spent should be disposed of in accordance with State and Federal laws.

Do not reuse empty bags or drums. Dispose of used bags in facility permitted for non-hazardous wastes.

Section 7. Handling and Storage

Handling: Wear safety glasses and protective gloves to avoid eye and skin contact. Resin handling should be in a well-ventilated, up wind areas. Eye-washing facilities must be set in the working area. Do not step on spilled resins because the resins are very slippery. Avoid high temperature, sparks and flames. Also avoid contact or mixture with oxidizing substances. Wash hands after handling.

Storage: Store in cool, dry, ventilated area at temperature more than 0 degree C not to freeze resins. Keep the containers completely closed. Keep away from oxidizing substances.

Section 8. Exposure Controls / Personal Protection

Occupational Exposure Limit: ACGIH TLV (TWA): Not established
(STEL): Not established

Engineering Measures: If resin handling is made in-house, general and/or local exhaust ventilation is preferred.

Personal Protection:

Respiratory Protection: Not necessary
Hand Protection: Rubber gloves
Eye Protection: Safety glasses or face shield
Skin Protection: Not necessary

Section 9. Physical and Chemical Properties

Appearance and odor: Light yellow opaque beads with slight amine odor

pH: Not applicable

Boiling point: Not applicable

Vapor Pressure: None

Vapor Density: None

Flammability: Not applicable

Auto flammability: Not applicable

Explosive Properties: Not applicable

Flash point: Not applicable

Melting Point: Not applicable

Oxidizing Properties: None

Relative Density: approx. 1.1

Solubility: (Water): Insoluble

(Solvents): Insoluble

Partition Coefficient: (n-Octanol/water): Not applicable

Section 10. Stability and Reactivity

Stability & Reactivity: Chemically stable

Conditions to Avoid: Drying and freezing

Materials to Avoid: Strong oxidizing substances such as nitric acid

Hazardous Decomposition Products (except burning): None

Section 11. Toxicological Information

Skin Corrosivity: Essentially no skin corrosivity

Irritation: Eye: May cause slight transient eye irritation.

Skin: Essentially no irritation.

Sensitization: Not available

Narcosis: None

Acute Toxicity: Oral: Believed to be essentially none.

Skin: Believed to be essentially none.

Inhalation: Believed to be essentially none.

Sub acute Toxicity: Believed to be essentially none.

Sub chronic Toxicity: Believed to be essentially none.

Chronic Toxicity: Believed to be essentially none.

Carcinogenicity: Believed to be essentially none.

Mutagenicity: Believed to be essentially none.

Reproductive Toxicity: Believed to be essentially none.

Section 12. Ecological Information

Degradability: Not determined

Biodegradability: None

Accumulation: Not available

Bioaccumulation: None

Ecotoxicity: Not available

Toxicity to Fish: Not available

Other Adverse Effects: Not available

Section 13. Disposal Considerations

After removal of hazardous and/or poisonous substances on used resin or contaminated package, dispose of the materials by either incineration or landfill.

Above disposal methods should be applied under conditions that meet all the regulations relating to waste in your country.

Section 14. Transport Information

Temperature during transportation must be kept more than 0 degrees C. Keep away from oxidizing substances. In addition, please follow all regulations in your country.

Further Information:

UN Class: Not applicable

UN No.: Not applicable

IMDG: Not applicable

IACO/IATA: Not applicable

RID: Not applicable

ADR: Not applicable

Section 15. Regulatory Information

Please follow all regulations in your country.

Section 16. Additional Information

[Leachables]

By contacting with water or solvent, trace level of substances such as $\text{HN}(\text{C}_2\text{H}_4\text{NH}_4)_n$, $\text{C}_6\text{H}_5\text{CHO}$, HCHO etc. may be released into the liquid.

Please refer to applicable regulations and please call for details.

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SDS REVISION SUMMARY: