SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Anionic Polyacrylamide Chemical**

Synonyms: Anionic Flocculant; Polyelectrolyte

Product Use: Water treatment; paper making; sludge dewatering; Drilling; mining; thickener; lubricant; binder etc.

Supplier: Mehrarad Energy Development Co. (Pureicals Brand)

Address: No. 7, Dashteestan 2nd, Pasdaran Street, Tehran, Iran

Emergency phone: +98 21-91200139

www.puricals.com

info@puricals.com

SECTION 2 – COM POSITION / INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Weight%
9003-05-8	Copolymer of acrylamide and acrylic acid	≥89
7732-18-8	Water	<11

SECTION 3 – HAZARD IDENTIFICATION

Classification of the substance or mixture

Classification according to paragraph (d) of Regulation 29 CFR 1910.1200: Not classified.

GHS Label elements

Labelling according to paragraph (f) of Regulation 29 CFR 1910.1200:

Hazard symbol(s): None

Signal word: None

Hazard statement(s): None Precautionary statement(s): None **Other hazards**

Aqueous solutions or powders that become wet render surfaces extremely slippery.

SECTION 4 – FIRST AIDMEASURES

Skin contact: Wash contaminated area with clean water.

Contaminated clothing should be washed before re-use.

Eye contact: Irrigate the eye with plenty of clean water. If there is any irritation obtain medical attention immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: None

Auto ignition Temperature: Not available.

Flammable Limits in Air (%): Not available.

Extinguishing Media

Suitable: Use an extinguishing media suitable for the surrounding fire.

Not Suitable: None known.

Hazardous Thermal

Decomposition Products: Carbon and Nitrogen Oxides.

Special Protective

Equipment for Fire-Fighters: Fire fighters should wear full protective clothing, including Self-contained breathing equipment.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions: and Wear appropriate protective equipment. Wet product aqueous solutions of product are very slippery.

Environmental Precautions: Prevent entry of concentrated solutions into sewers or streams, dike if needed.

Procedure for Clean-up: Sweep or scoop dry material and place in appropriate container. Absorb aqueous solutions with a dry inert material, such as clay, and place in an appropriate waste disposal container. After most of the material has been cleaned-up clean the area with warm, soapy water.

SECTION 7 – HANDLING AND STORAGE

Handling:	For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.
Storage:	Store in a cool, dry area. Store in accordance with good industrial practices. Keep away from direct sunlight. Protect against physical damage.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protection

Hands:	A respirator should not be required when working with the product.

Personal Protective Equipment

Respiratory protection:	Use gloves appropriate for work or task being performed. Recommended: PVC, vinyl, or rubber.
Eyes:	Safety eyewear should be used when there is a likelihood of exposure. Recommended: Chemical goggles; also wear a face shield if splashing hazard exists.
Skin:	Skin Contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Other Personal

Protection Data:	Ensure that eyewash stations and safety showers are proximal to the work-station location.
Engineering Controls: exposure to	Local exhaust ventilation as necessary to maintain within applicable limits.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Appearance:	White or off-white
Odor:	Slight
Vapor Pressure:	Not available
Vapor Density:	Not available
Viscosity:	Refer to technical specifications
Melting Point/Range °C:	Not available
Solubility in Water:	Completely soluble but dissolves very slowly. Bulk Density: About 0.6-0.8
Flash Point (°C):	Not available
VOCs:	Not available
Molecular Weight:	Refer to technical specifications
PH (0.1%):	6.0-9.0

SECTION 10 – STABILITY AND REACTIVITY

Stability:	Product is stable, no hazardous polymerization will occur.
Conditions to avoid:	High temperatures.
Materials to avoid:	Strong bases such as sodium hydroxide may cause the release of ammonia.
Decomposition products:	At high temperatures carbon oxides and nitrogen oxides may be released upon decomposition.

SECTION 11 – TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: May cause irritation of the lining of the stomach.

Skin contact: Mild to moderate irritation can occur. Prolonged or repeated contact may cause defatting and drying of the skin. Prolonged or repeated contact may cause discomfort and local redness.

Inhalation: Inhalation of vapors, mists or dusts of the product may be irritating to the respiratory system. May irritate mouth, nose, and throat.

Eye contact: May causes eye irritation; May result in mild to moderate irritation to eyes.

Additional Information: Prolonged and repeated contact with the skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.

Acute Toxicity

Acute Oral LD50: Oral LD50 (Rat) > 5000 mg/kg

Acute Dermal LD50: Not available.

Acute Inhalation LC50: Not available.

Carcinogenicity

Acrylamide is a suspected human carcinogen.

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity / Teratogenicity / Embryo toxicity / Mutagenicity: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Aquatic Eco toxicity

Based on testing of related granular product on Rainbow Trout (Oncorhynchus mykiss) toxicity is expected to be >450 mg/L.

Other Information:

Bioaccumulation: The product is not expected to bio accumulate. Persistence and degradability: Not readily biodegradable.

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SECTION 13 – DISPOSAL CONSIDERATIONS

Waste from residues/unused: Dispose of as special waste in compliance with local and national regulations.

Contaminated packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14 – TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations. None hazardous for air, sea and road freight.

IATA: Not Regulate

SECTION 15 – REGULATORY INFORMATION

This product is not a hazardous article and need not to be labelled according to EC-Directives as amended.

SECTION 16 – OTHER INFORMATION

This MSDS Mehrarad Energy Development Co. Chemicals knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace. Each user should read the MSDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.