MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product Name : Anionic Polyelectrolyte
Application of the product : Flocculants, Settling agent

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Description: 2-Propenoic acid, sodium salt polymer with 2-propenamide
Hazardous Ingredients: No Hazardous ingredients

3. HAZARD IDENTIFICATION

Human Health Hazards : None

Inhalation : Nuisance dusts of this product may cause irritation of the nose, throat and respiratory tract

Eye Contact : Dust may cause burning, itching resulting in reddening of the eyes.

Skin Contact : Exposure to the dust may aggravate existing skin conditions due to drying effect.

Ingestion : As in any instance of non-food consumption, seek medical attention in the event of any adverse symptoms.

Emergency overview : This material is white, granular, odourless polymer that yields very viscous gel in contact with water and causes very slippery conditions when wet.
4. **FIRST AID MEASURES**

- **Inhalation**: If inhaled, move to source of fresh air. Seek medical attention if Symptoms persist.

- **Eye Contact**: Immediately flush eyes with plenty of water for at least 15 minutes.

- **Skin Contact**: Remove dust with plenty of soap and water.

- **Ingestion**: If ingestion of large amount does occur, seek medical advice.

5. **FIRE FIGHTING MEASURES**

- **General Fire Hazards**: Dust may form an explosive mixture in air.

- **Upper Flammable limit**: None Established

- **Lower Flammable Limit**: None Established

- **Flash Point**: None

- **Flammability classification**: None

- **Extinguishing media**: Use water spray or fog, carbon dioxide or dry chemical

**Fire fighting Equipment/Instructions**: Fire fighters should wear full protective clothing including self-contained breathing apparatus.

6. **ACCIDENTAL RELEASE MEASURES**

- **Personal Precautions**: Spills are very slippery when wet. Avoid contact with skin and eyes.

- **Methods of cleaning up**: Slippery when wet. Sweep up into containers for disposal. Flush spill area with water. If slipperiness remains apply more dry-sweeping compound. Prevent liquid entering sewers.

7. **HANDLING AND STORAGE**

- **Handling Procedures**: Handle as an eye and respiratory tract irritant, minimize dust

- **Storage conditions**: Store in a dry closed container
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Occupational Exposure Limits**: No values have been established
- **Engineering Measures**: Engineering controls are not usually necessary if good hygiene practices are followed.
- **Respiratory Protection**: None recommended.
- **Hand Protection**: Wear impermeable gloves.
- **Skin Protection**: Standard protective clothing
- **Eye Protection**: Wear eye/face protection.
- **Hygiene Recommendation**: Before eating and drinking, wash hands and face thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance**: White granular powder
- **Odour**: None
- **Physical State**: Solid
- **PH**: 7 to 8.5 (1 g/liter in water)
- **Vapour Pressure**: Not applicable
- **Boiling Point**: Not Established
- **Melting Point**: Not applicable
- **Solubility**: Soluble in water limited by viscosity
- **Bulk Density**: 0.6 to 0.8
- **Auto ignition temp.**: Not available
- **Decomposition Temp.**: Not available

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

- **Stability**: Stable
- **Conditions to avoid**: None
- **Materials to avoid**: Strong oxidizing agents
- **Hazardous decomposition products**: Carbon monoxide, carbon dioxide, ammonia, oxides of nitrogen
- **Hazardous Polymerisation**: Will not occur
11. TOXICOLOGICAL INFORMATION

This product is not regulated as a hazardous material.

**Acute Toxicity – LD50/LC50**
- Oral LD50 (rat): Not Applicable > 5000 mg/kg (actual)
- Dermal LD50 (rabbit): Not Applicable > 1000 mg/kg (actual)
- Inhalation LC50 (4 hour rat): Not Applicable > 20 mg/L (estimated)
- Skin irritation (rabbit): Not irritating
- Eye Irritation (rabbit): Not irritating
- Dermal sensitization: Not sensitizing
- Inhalation sensitization: Not sensitizing

**Potential Health Effects**: None

12. ECOLOGICAL INFORMATION

**Fish Toxicity**: LC50~3600 mg/l.

**Component Analysis – Ecotoxicity – Aquatic Toxicity**: No information available

**Environmental fate**: Polyacrylamides are relatively inert in aerobic and anaerobic conditions. They are immobile in landfills and soil systems, with the mobile fraction showing biodegradability. They are also compatible with incineration of municipal solid waste. Incidental down the drain disposal of small quantities of this product will not affect the performance of waste water treatment systems.

13. DISPOSAL CONSIDERATIONS

- This product is non-hazardous waste material suitable for approved solid waste landfills.
- No EPA Waste Numbers are applicable for this product’s components.
- Dispose of in accordance with Local, State and Federal regulations

13. TRANSPORTATION INFORMATION

**International Transportation Regulations**: This product is not transport regulated.

14. REGULATORY INFORMATION
A. General Product Information

This product is not federally regulated as a hazardous material.

B. Clean Air Act

No information is available.

C. Component Analysis

No information is available

State Regulations

This product is not regulated by any state as hazardous material.

Component Analysis - Inventory
Component CAS # TSCA CANS EEC

2-Propenoic Acid, sodium salt, polymer with 31212-13-2 Yes DSL Not
2-Propenamide Regulated as a polymer

15. OTHER INFORMATION

The information provided in this material safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.