

## **Suchem WT 619**

### **Solid-liquid Separation polymer for ETP**

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#### **FUNCTION & APPLICATION**

**Suchem WT 619** is high efficient cationic polyelectrolyte, specially designed for solid-liquid separation process. The product applications include sedimentation, thickening and clarification of suspended solids, clarification of mixture of aqueous liquor and fatty acids by sedimentation. Dewatering of pulp and sludge for the recovery of liquor in the system The product is also best suited for the effluent in the paper industry, textile industry and in the systems where the suspended solids load is substantially high.

<b>TYPICAL PROPERTIES</b>	<b>ADVANTAGES</b>
Appearance : White Crystalline Powder pH of 0.1% Sol : 4.00 to 6.00	<ul style="list-style-type: none"><li>➤ Rapid settling.</li><li>➤ High filtration rate.</li><li>➤ Compact Sludge Volume.</li></ul>

#### **DIRECTIONS FOR USE**

**Suchem WT 619** may be unloaded manually or pumped directly into the dilution tank from the container. Prepare stock solution (1.0 to 1.5% w/v) of the polyelectrolyte using filtered water. Prepare feed solution by diluting the stock solution about ten times directly or by on-line using filtered water. For small systems chemicals can be dosed by gravity or by dosing equipment. However, for large systems for optimum efficiency, use of dosing system is recommended.

#### **PACKING, STORAGE & HANDLING**

Packing Size 25 kg, keep the bags closed and away from direct heat and sunlight. The product should not be swallowed and prolonged contact with skin should be avoided. Use hand gloves, goggles, and safety gadgets while handling the chemical. Avoid contact with eyes & skin. In case of eye contact, flush with plenty of water and get immediate medical attention.

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**An ISO 9001:2008 Certified company**

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## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name	<b>Suchem</b> WT 619
Supplier	<b>Suzalkem</b> Technologies Private Limited 401, Rajeshwara Apartments, Image Hospital Lane, Nagarjuna Nagar, Ameerpet, Hyderabad- 500 073 <a href="http://www.suzalkem.com">www.suzalkem.com</a> Tele Fax : (040) 2373 7116

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation	Cationic Water – Soluble Polymer
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### 3. HAZARDS IDENTIFICATION

Spills produce light slippery surfaces.

### 4. FIRST AID MEASURES

Inhalation	Move to fresh air.
Skin contact	Wash with water and soap as a precaution. In case of persistent skin irritation, consult a physician
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.
Ingestion	The product is not considered toxic based on studies on laboratory animals.

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water, water spray, foam, dry powder, carbon dioxide (CO <sub>2</sub> )
Special fire-fighting precautions:	Spills produce slippery surface
Special protective equipment for firefighters:	No special protective equipment required

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Nothing special required.
<b>Environmental precautions</b>	NA
<b>Methods for clearing up</b>	Flush with water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. When preparing the working solution ensure there is adequate ventilation. Do not breath vapours or spray mist. When using do not smoke.
<b>Storage</b>	Keep in a dry, cool place & covered place (Ambient Temperature).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering measures to reduce exposure</b>	Use local exhaust if misting occurs. Natural ventilation is adequate in the absence of mist.
<b>Personal protection equipment</b>	
<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment.
<b>Hand protection</b>	Rubber gloves.
<b>Eye protection</b>	Safety glasses with side -shields. Do not wear contact lenses.
<b>Skin and body protection</b>	Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.
<b>Hygiene measures</b>	Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Solid Powder
<b>Color</b>	White Crystalline Powder
<b>pH (0.1% Sol.)@25°C</b>	4.00 to 6.00
<b>Odor</b>	Odorless
<b>Viscosity</b>	Not Applicable
<b>Vapor Density</b>	Not Applicable
<b>Melting Point/Range</b>	Not Applicable
<b>Boiling Point/Range</b>	Not Applicable
<b>Flash Point</b>	Not Applicable
<b>Evaporation Rate</b>	Not Applicable
<b>Flammability(Solid, Gas)</b>	Not Applicable

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Product is stable, no hazardous polymerization occur.
<b>Materials to avoid</b>	Acidic agents may cause exothermic reactions.
<b>Hazardous decomposition products</b>	No decomposition if stored and applied as direct.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	LD50/oral/rat>5000 mg/kg
<b>-Oral</b>	
<b>Dermal</b>	The result of testing on rabbits showed this material to be non-toxic even at high dose levels.
<b>-Inhalation</b>	The product is not expected to be toxic by inhalation.
<b>Irritation</b>	
<b>-Skin</b>	The result of testing on rabbits showed this material to be non-irritating to the skin.
<b>-Eyes</b>	Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjunctivae

The results of testing on guinea pigs showed

**Sensitization**

this material to be non-sensitizing

**Chronic toxicity**

A two-year feeding study on rats did not reveal adverse health effects. A one-year feeding study on dogs did not reveal adverse health effects

**12. ECOLOGICAL INFORMATION**

<b>Eco toxicity</b>	LC50/Fathead minnows/96h>1000mg/l
<b>-Fish</b>	
<b>-Algae</b>	EC 50 / Selenastrum capricornutum /96h >500 mg/l
<b>Environmental fate</b>	The product is not expected to bio accumulate
<b>-Bioaccumulation</b>	
<b>-Degradability/ Persistence</b>	Readily biodegradable

**13. DISPOSAL CONSIDERATIONS**

<b>Waste from residues/ unused products</b>	In accordance with local and national regulations. Rinse empty containers with water and use the rinse water to prepare working solution. Can be land filled or incinerated, in compliance with local regulations.
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**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.  
Not Regulated for transport under IATA regulations.

**15. REGULATORY INFORMATION**

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

**16. OTHER INFORMATION**

The information provided in this 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 a any process unless, specified in the text.