

SuChem WT 638

Flocculent for Dewatering application

FUNCTION & APPLICATION

SuChem WT 638 is high efficient polyelectrolyte, specially designed for dewatering application in the solid-liquid separation process. Its applications include sedimentation, thickening and clarification. The product is best suited for the clarification of aqueous liquor/fatty acids by sedimentation, filtration, centrifugation, dewatering of sludge/pulp for the recovery of liquor. 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.

SuChem WT 638 is having an anionic character due to which the suspended impurities present in the effluent in the form of silt, color and suspended solids to form flock. These flock in course of time gets aggregated and settles in the clarifier as sludge resulting in crystal clear supernatant water and it make the flock compact by removing maximum water. The product is having a unique nature of working in any pH ranges.

TYPICAL PROPERTIES	ADVANTAGES
Appearance : White Crystalline Powder pH of 0.1% in aqua's : 7.00 to 9.00	<ul style="list-style-type: none"> ➤ Improved settling rate in clarifier ➤ Reduced retention time ➤ Compressed filter cakes ➤ Improved efficiency of the clarifier ➤ Works irrespective of ph ➤ Instant color change ➤ Effluent color reduction

DIRECTIONS FOR USE

SuChem WT 638 stock solution of (0.25 to 0.4% w/v) is prepared by diluting with condensate water /DM water... Prepare feed solution by diluting stock solution about ten times (directly or on-line diluting). Product is dosed by gravity or by dosing pump. We Recommend a dosage of 0.5 to 3 ppm and will vary on the effluent characteristics.

PACKING, STORAGE & HANDLING

Packing Size 25KG HDPE bags, 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.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name	Suchem WT 638
Supplier	Suzalkem Technologies Private Limited 401, Rajeshwara Apartments, Image Hospital Lane, Nagarjuna Nagar, Ameerpet, Hyderabad- 500 073 www.suzalkem.com Tele Fax : (040) 2373 7116

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation	Anionic 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 ₂)
Special fire-fighting precautions:	Spills produce slippery surface
Special protective equipment for firefighters:	No special protective equipment required

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Nothing special required.
Environmental precautions	NA
Methods for clearing up	Flush with water.

7. HANDLING AND STORAGE

Handling	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.
Storage	Keep in a dry, cool place & covered place (Ambient Temperature).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures to reduce exposure	Use local exhaust if misting occurs. Natural ventilation is adequate in the absence of mist.
Personal protection equipment	
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	Rubber gloves.
Eye protection	Safety glasses with side -shields. Do not wear contact lenses.
Skin and body protection	Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.
Hygiene measures	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

Form	Solid Powder
Color	White Crystalline Powder
pH (0.1% Sol.)@25°C	7.00 to 9.00
Odor	Odorless
Viscosity	Not Applicable
Vapor Density	Not Applicable
Melting Point/Range	Not Applicable
Boiling Point/Range	Not Applicable
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability(Solid, Gas)	Not Applicable

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity -Oral	LD50/oral/rat>5000 mg/kg
Dermal	The result of testing on rabbits showed this material to be non-toxic even at high dose levels.
-Inhalation	The product is not expected to be toxic by inhalation.
Irritation -Skin	The result of testing on rabbits showed this material to be non-irritating to the skin.
-Eyes	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

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

13. DISPOSAL CONSIDERATIONS

Waste from residues/ unused products	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.