

Suchem WT 642

Raw water Polyelectrolyte

FUNCTION & APPLICATION

Suchem WT 642 is liquid high molecular weight based polymer used in water clarification. The product can be used independently or supplemented with inorganic coagulants or Flocculants based on the requirement. **Suchem WT 642** is efficient in removal of colloidal silica in pre treatment plants. The product effectively removes suspended solids, oil, coloring matter etc by forming a sludge which is removed through settling. For the pretreatment of raw water the product is recommended for clarification of impurities with low dose levels. Because of the organic nature of product the sludge formation is very minimal compared to the conventional coagulants the product can be used for efficient removal of organics, oil and suspended solids from potable and process water.

TYPICAL PROPERTIES	ADVANTAGES
Appearance : Colorless to Pale Yellow Liquid Sp. Gravity @ 25 ^o C : 1.00 – 1.20 pH of 5% Sol : 4.00 – 6.00	<ul style="list-style-type: none">➤ Improved settling rate in clarifier➤ Reduced retention time➤ Improved efficiency of the clarifier➤ Better raw water clarification➤ COD reduction

DIRECTIONS FOR USE

Suchem WT 642 Polymers 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 clear filtered water. Prepare feed solution by diluting the stock solution about ten times directly or by online using filtered water. For small chemicals can be dosed by gravity or by dosing equipment. However, for large systems use of dosing system is recommended for optimum efficiency.

PACKING, STORAGE & HANDLING

Packing Size 50/200 Kg, Keep the carboys 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.

An ISO 9001:2008 Certified company

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MATERIAL SAFETY DATA SHEET**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

Product Name	Suchem WT 642
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	Cationic Polymer in solution
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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	Liquid
Color	Colorless to Pale Yellow Liquid
pH 5% in aqua's	4.00 To 6.00
Specific Gravity	1.00 To 1.20
Odor	Odorless
Viscosity	Not Applicable
Vapor Pressure	0.13 @ 20 °C
Melting Point/Range	Not Applicable
Boiling Point/Range	Not Applicable
Flash Point	>100 °C
Auto-Ignition Temperature	>200 °C
Evaporation Rate	Not Applicable
Flammability(Solid, Gas)	Not Applicable

10. STABILITY AND REACTIVITY

Stability	Product is stable, no hazardous polymerization occur.
Materials to avoid	Oxidizing agents may cause exothermic reactions.
Hazardous decomposition products	No decomposition if stored and applied as direct. Burning of the dried material can produce : hydrogen chloride gas, chloride gas , nitrogen oxides (Nox) & carbon oxides.

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

Sensitization

conjunctival.
The results of testing on guinea pigs showed 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

-Fish

LC50/Fathead minnows/96h>1000mg/l

-Algae

EC 50 / Selenastrum capricornutum /96h >500 mg/l

Environmental fate

-Bioaccumulation

The product is not expected to bio accumulate

-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.

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.