

Water Technologies & Solutions

fact sheet

SoliSep* MPT130

polymeric coagulant

- Unique, self-precipitating polymer
- Targets low NTU and low color surface water.
- Excellent for removal of humic matter and iron
- Promotes maximum solids and color removal
- Highly efficient emulsion breaker for oil-in-water emulsions
- No significant effect on system pH
- Efficient, economical and easy to feed
- Increases resistance to filter breakthrough
- Reduces backwash waste
- Compatible with and proven not to foul thin film composite membranes when used as directed

description and use

SoliSep MPT130 is a highly charged, cationic, low molecular weight, liquid coagulant. It is designed to function in a SUEZ treatment program as a primary coagulant for removal of colloidal turbidity and emulsified materials from surface waters and recycled process waters.

This patented product produces excellent water quality through multimedia filters used as pretreatment for reverse osmosis and other membrane systems. It is particularly effective in low turbidity river water pretreatment. When used in influent water treatment programs, it will eliminate or reduce the need for alum and/or iron salts. It produces a dense, rapid forming floc that is readily held by the multimedia filter and is easily backwashed out of the filter. Because it produces little reduction in alkalinity, the need for pH adjustment is reduced.

SoliSep MPT130 is particularly effective in destabilizing oil-in-water emulsions, especially water soluble oils,

nonionic surfactants, glycols and metal-working fluids, to produce effective removal of these materials by activated carbon and multimedia filters.

application

SoliSep MPT130 can be fed neat upstream of the multimedia filter. SoliSep MPT130 can also be diluted with good quality water (permeate or DI water being best) to any ratio less than 10% to meet the chemical feed pump capacity requirements.

Avoid using unlined mild steel, aluminum, urethane, and nylon in selecting tanks and piping, and for wetted surfaces of pumps to feed the neat liquid. Corrosion-resistant materials of construction such as leaded brass, butyl lining, PVC and polyethylene are recommended.

Note: Incompatible antiscalant/antifoulant and coagulants may congeal and cause severe membrane fouling. SoliSep MPT130 should only be used in combination with compatible Hypersperse* MDC products such as Hypersperse MDC150 and Hypersperse MDC220.

dosing information

Typical dosing range is between 1 and 6 ppm (mg/L). Over and under-dosing may decrease filtration efficiency. To assist you, our Sales Engineers are available to provide custom dosages for your application.

packaging information

SoliSep MPT130 is a liquid material, available in a wide variety of customized containers and delivery

The Lenntech logo features the word "LENNTech" in a blue, italicized sans-serif font.

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methods. Contact your SUEZ sales representative for delivery and packaging alternatives.

storage and handling

Store SoliSep MPT130 at moderate temperatures of 40 to 90°F (4 to 32°C) and protect from freezing. If frozen, thaw and mix thoroughly prior to use. To ensure maximum coagulation activity, this product should be used within nine months.

safety precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.

metric conversion factors

To convert any of the English units in this fact sheet into their metric equivalents, use the appropriate conversion factors:

$$\text{Gal} \times 3.785 = \text{liters}$$

$$\text{Lb} \times 0.454 = \text{kg}$$

$$\text{psi} \times 6.7 = \text{Kpa}$$

$$(^{\circ}\text{F} - 32) / 1.8 = ^{\circ}\text{C}$$

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