

# SoliSep\* MPT104

## Anionic Polymeric Flocculant

- Easy-to-feed, liquid anionic polymer flocculant (i.e. not an emulsion polymer, no carrier solvent).
- Designed for use with inorganic coagulants to improve coagulation and floc formation.
- Suitable for use in front of RO pretreatment unit operations (MMF, UF, MF).
- Compatible with all Hypersperse\* antiscalants.
- NSF approved for use in potable systems (certified to NSF/ANSI Standard 60).

### Description and Use

SoliSep\* MPT104 is a liquid, mildly anionic, polymeric flocculant. This product is designed to function in membrane pretreatment applications as a coagulant aid or a flocculant to help in the removal of particulate matter, turbidity, and color.

The active components in SoliSep MPT104 contain long-chain organic molecules that use charge functionality to pull together coagulated solids into a more dense and heavier floc. This dense, rapid-forming floc quickly settles out of the feed water and is readily removed by media filters and other pretreatment unit operations.

SoliSep MPT104 is designed for use in conjunction with inorganic coagulants (e.g. SoliSep MPT103) to enhance filtration processes and deliver excellent filtered water quality in membrane pretreatment applications. This product is chlorine resistant and approved for use in potable water applications.

### Application and Dosing

SoliSep MPT104 should be fed upstream of multi-media filters or upstream of a clarifier. When used in conjunction with a coagulant, the feed point should be downstream of the coagulant feed point, with careful consideration given to reaction time of

the coagulant. The product should be fed to a point of good mixing, but not violent agitation. Vigorous mixing may decrease the activity of the product. The typical dosage range is between 5 and 10 ppm (mg/L). For potable applications the maximum dosage is 50 ppm (mg/L). Contact your local GE representative to define optimal feed point and dosage.

SoliSep MPT104 can be fed neat (undiluted) using a suitable high-viscosity pump or it can be diluted to any ratio to meet the chemical feed pump capacity requirements. When diluting, use high quality water such as permeate or deionized water. When feeding diluted product, periodically examine the make-down tank for evidence of microbiological (MB) growth. If MB growth is observed, sanitize the tank and reduce the batch size. For best results, SoliSep MPT104 should be fed neat.

**Important Note:** Over-dosing this polymeric flocculant can adversely impact filter performance.

### Packaging Information

SoliSep MPT104 is a liquid material, available in a variety of containers and delivery methods. Contact your GE sales representative for details.

### Safety Precautions

Spilled polymer is very slippery. Small amounts of spilled polymer can be washed down with copious amounts of water. Large spills should be contained and absorbed on inert material, then disposed as solid waste, prior to flushing with water.

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



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