

**Water Technologies & Solutions**  
**fact sheet**

# MetClear\*MR2416

## metals precipitating agent

- Completely water soluble
- Precipitates metals over a wide pH range
- Enables wastewater recycling for plant processes
- Can be applied during normal treatment process or as a polishing agent for wastewater treatment
- Effective for various metals, including cadmium, chromium, copper, lead, mercury, nickel, silver and zinc

## description and use

MetClear MR2416 is a liquid precipitating agent for metals. It is effective in precipitating metal ions to low concentrations in wastewater. A typical application for this product is as a polishing step following conventional metal precipitation processes, such as hydroxide precipitation. It can be considered as an alternative to conventional techniques for precipitation of higher levels of metal ions.

## typical applications

MetClear MR2416 precipitates traditional heavy metals such as mercury, silver, cadmium, copper, lead, zinc, cobalt, and nickel. It is not effective in precipitating alkaline metals or alkaline earth metals, such as sodium, magnesium and calcium. The presence of these metals does not increase the dosage demand for this product. Non-metal species, that carry net negative charges, such as antimony and selenium, do not respond well to MetClear MR2416.

Industries facing new regulations for heavy metals discharge such as power generation, hydrocarbon refineries, steel, cement and mining operations can benefit from the MetClear MR2416.

Your local SUEZ representative, along with SUEZ's corporate support team will assist in developing a metal removal program tailored to meet your needs. Site-specific surveys and on-site testing are routinely conducted to evaluate the potential for both chemical and advance filtration requirements to meet treatment goals.

## treatment and feeding requirements

MetClear MR2416 can be added during the normal treatment process. It is miscible with water in all dilutions; therefore, it may be diluted to any ratio desired to meet chemical feed pump capacity. Dilution water should be good quality with a pH near neutral. The product can be applied neat to an area of high turbulence, such as the suction side of a pump.

In practice, after the addition of MetClear MR2416 to a batch solution or continuous stream, the treated water should be agitated to allow for reaction before the metal precipitate settles.

Polypropylene, stainless steel (304 or 316), or high density cross-linked polyethylene (HDCLPE) may be used for tank storage. Materials recommended for tubing and fittings are Type 1 PVC, stainless steel, HDCLPE, polypropylene, Viton A and Buna N. (Viton is a registered trademark of DuPont.) Avoid the use of low carbon steel and aluminum containing alloy in piping and storage tank construction.

## general properties

Physical properties of MetClear MR2416 are listed on the Material Safety Data Sheet, a copy of which is available on request.

## packaging information

MetClear MR2416 is a liquid product, available in a variety of containers. Consult your SUEZ representative for packaging options.

## storage and handling

MetClear MR2416 should be stored in a cool, dry environment. Keep container closed when not in use. Protect from freezing. If frozen, warm and mix thoroughly prior to use.

## safety precautions

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

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