



MEOR

Maximizing Earths Original Resources, L.L.C.

4610 S. 33rd Place • Phoenix, AZ 85040 • Phone: (480) 929-9194 • Fax: (480) 219-6875 • www.meor.net

TECHNICAL DATA SHEET

OCI 101-O

OCI 101-O is a unique blend of FDA/USDA approved products, which does not harm ground water supplies. This product was formulated specifically for corrosion inhibitor of oil well re-injection piping.

OCI 101-O was designed to act as a *filmer* by laying down a protective silica layer on new exposed system piping, preventing the very corrosive re-injection waters from coming in contact with the actual metals of the piping system.

This product will not harm the ground water and should be fed continuously at 5-10 ppm as product.

OCI 101-O was formulated for the uniquely aggressive waters encountered in oil well re-injection systems.

If there are any questions regarding this product, notify Maximizing Earths Original Resources, L.L.C. at (480) 929-9194.



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TECHNICAL DATA SHEET

OCI 102-S (Sodium/Hexa)

OCI 102-S is a unique blend of FDA/USDA approved products, formulated and combined for corrosion inhibition of oil well piping in re-injection systems.

This product was designed to produce a *least soluble oxide layer* on the *protective layer* on re-injection piping, so as to reduce the corrosion rates of the piping from the aggressive attacks of sulfur and chloride saturated waters.

This product will not harm the ground water and should be fed continuously at 2 to 3 ppm. OCI 102-S was formulated for the unique high corrosion attack seen in the oil industries re-injection water.

If there are any questions regarding this product, notify Maximizing Earths Original Resources, L.L.C. at (480) 929-9194.



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TECHNICAL DATA SHEET

OCI 103-SO Film Plus Corrosion Control

The OCI 103-SO Corrosion Control program was developed by MEOR, LLC to provide a protective film on well tubulars as well as develop a least soluble oxide layer on the metal itself.

The OCI 103-SO is an environmentally friendly product used to form a monomolecular film layer on the piping so the water/oil never comes in contact with the mild steel itself, greatly reducing corrosion rates and extending tubular life.

Unlike other corrosion inhibitors, OCI 103-SO is effective in oil and gas wells, submersible pumped or gas lifted oil wells and high pressure, high temperature gas condensate wells. It remains stable at bottom hole temperatures as high as 400 degrees F and controls corrosion in wells with varying characteristics and fluid levels.

This product is applied neat at 4-6 ppm as product and fed continuously based on the amount of flush water, and ideally should be applied via a truck or 100 gallon pumping container with a chemical feed pump.

After initial application, at 10-15 ppm to establish the “protective layer” on the piping surface, OCI 103-SO should be injected to maintain 406 ppm as product to continually passivate and protect piping. Typical corrosion rates will drop 50% utilizing this program to protect against general corrossions, sweet or sour corrossions, and pitting corrossions. Corrosion rates of mild steel will be typically less than 1 mill per year utilizing this protective program.

This product utilizes only environmentally friendly corrosion inhibitors and can be utilized near potable water aquifers with no fear of pollution or ground water contamination.

The OCI 103-SO program will improve overall operating efficiency, increase profitability, and reduce piping failures associated costs of pulling wells and replacing equipment. OCI 103-SO is the total corrosion control product aiding in the reduction of scales, protection of piping, dispersion of paraffin’s and is environmentally friendly.

To find out more about OCI 103-SO, call your local MEOR representative.



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TECHNICAL DATA SHEET

OCI-VSD (Non-Corrosion Scale Cleaner)

OCI-VSD is a straight, concentrated dispersant for cleaning heavy scale build up.

OCI-VSD was designed to be widely used for controlling metal ions over a broad pH range in aqueous systems. This product will not chelate monovalent metal ions such as sodium or potassium, but will chelate most multivalent metal ions (e.g., Fe, Cu, Mn, Ca, Mg, Zn) in a 1:1 molar ratio. The product has the unique ability to prevent typical scale buildup as well as silica scales. OCI-SD utilizes environmentally friendly products to ensure no environmental impact or contamination of ground water sources.

Applications:

Oilfield applications, Scale removal and prevention, Agriculture, Metalworking, Personal care products, Polymerization, Pulp and paper, Textiles, Water treatment

OCI-VSD is an aqueous solution of Na_4EDTA is the strongest, most versatile and widely used chelant for controlling metal ions over a broad pH range in aqueous systems. It will not chelate monovalent metal ions such as sodium or potassium, but will chelate most multivalent metal ions (e.g., Fe, Cu, Mn, Ca, Mg, Zn) in a 1:1 molar ratio. The chelation reaction is virtually instantaneous in most cases. Calcium and other alkaline earth metals are most effectively chelated above pH 4. Na_4EDTA chelates most metals below pH 12. OCI-VSD is completely miscible with water, but is not soluble in organic systems. Na_4EDTA is stable under widely varying conditions of temperature, acidity, alkalinity and the presence of other chemicals. Na_4EDTA is attacked, however, by strong oxidizing agents such as hypochlorite bleach. In some applications, Na_4EDTA can be reclaimed for reuse.



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TECHNICAL DATA SHEET

OCI-HSD (Severe Scaling)

OCI-HSD is a straight, concentrated scale inhibitor without the corrosion protection.

OCI-HSD was designed for silica levels that exceed 180 ppm SiO₂, which is frequently difficult or impossible to remove. OCI-HSD has now raised that ceiling over 500 ppm SiO₂.

OCI-HSD prevents silica-based scale formation by dispersing colloidal silica and by preventing magnesium silicate scale formation at the heat transfer surfaces.

It is highly recommended to follow-up with MEOR's OCI-SD product as a method of continuous injection to prevent any further scale build-up. This product also has some corrosion inhibitor tendencies, which would help reduce the existing corrosion rates.

This product will not harm the ground water and should be fed continuously at 5 ppm.