

A combined technology approach to address soil and groundwater contamination

CR, which stands for Combined Remedy, is comprised of a specially mixture of Klozur[®] Persulfate and PermeOx[®] Plus. It is ideal for *in situ* and *ex situ* chemical oxidation of soil and groundwater, as well as the promotion of aerobic bioremediation.

Klozur[®] CR is a single, formulated product that can be readily applied to either source areas or plumes with mixed petroleum and chlorinated solvents contamination. Klozur[®] CR is formulated to provide a self-activated persulfate oxidation system which couples aerobic and anaerobic processes that can last up to one year after applied.



The Power of Klozur[®] Activated Persulfate

- Self-activating persulfate oxidation generates powerful sulfate and hydroxyl radicals
- Rapid *in situ* chemical oxidation to target source and hot spot contaminate zones

The Performance of PermeOx[®] Plus

- Extended oxygen release for up to one year
- Enhanced aerobic bioremediation in down gradient plumes

Benefits include:

- **No chemicals to mix**
- **Immediate ISCO benefits**
- **Longer term enhanced aerobic (O₂) and anaerobic (SO₄⁻²) bioremediation**

Potential Applications:

Direct push injection

Soil blending

Direct application in an excavation

Examples of Contaminants of Concern

CHLORINATED SOLVENTS

PCE, TCE, DCE, VC, TCA, DCA

PETROLEUM

GRO, DRO, ORO, BTEX

PAHs

Creosote, MGP residuals
1,4-dioxane, MTBE, TBA

For more information and detailed case studies, please visit our website.