

The Field Proven and Versatile ISCO Solution to Address Soil & Groundwater Contamination

Klozur® SP is the oxidant of choice for *in situ* chemical oxidation (ISCO), because of its proven ability to treat a wide range of contaminants including chlorinated solvents, petroleum and PAHs. Based upon an environmental grade of sodium persulfate (SP), Klozur SP is ideal for contaminated source zones and hot spots that require rapid treatment. When properly activated, Klozur SP provides an unmatched combination of oxidative power, versatility, and control that can be delivered both safely and cost effectively.

Successful field applications of Klozur activated persulfate have been performed globally. These applications demonstrate the ability of Klozur activated persulfate to treat diverse organic contaminants of concern including: chlorinated ethenes (TCE, PCE, DCE and vinyl chloride), chlorinated ethanes (TCA and DCA), chlorinated methanes (carbon tetrachloride and methylene chloride), BTEX, MTBE, polyaromatic hydrocarbons (PAHs), petroleum hydrocarbons (TPHs, GRO, DRO), 1,4-dioxane and pesticides.

The benefits of Klozur SP

When used with PeroxyChem's patented activation methods, Klozur SP produces the powerful oxidative ($\text{SO}_4^{\bullet-}$, OH^{\bullet}) and reductive ($\text{O}_2^{\bullet-}$) radicals creating a multi-radical attack for the rapid destruction of recalcitrant compounds.



Multiple activation options and methods of delivery provide for a flexible and custom solution based on site conditions. With a solubility limit of up to 40 wt%, Klozur SP can be applied as a fully soluble solution. Klozur SP is a stable oxidant given its high oxidation potential, with a typical active lifetime in the subsurface of weeks to months, providing an extended radius of influence. Klozur SP is safe to handle with PeroxyChem's recommended use guidelines and does not generate heat or gas.

The sound science of Klozur Activated Persulfate

Klozur activated persulfate has a long history of documented success having been used at thousands of sites to remediate contaminants of concern around the world. The field application of Klozur activated persulfate has been scientifically validated in hundreds of independent peer-reviewed journal articles and conference presentations.

Applications methods

- Direct push injection
- Fixed well injection
- Soil blending

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

Examples of Contaminants of Concern

CHLORINATED SOLVENTS
PCE, TCE, DCE, VC, TCA, DCA,
methylene chloride,
carbon tetrachloride,
chlorobenzene

PETROLEUM
TPH, BTEX, DRO, GRO

PAHs
creosote, MGP residuals
1,4-dioxane, MTBE, TBA,
energetics,
chlorinated pesticides