



PersulfOx[®] SP
SODIUM PERSULFATE

Sodium Persulfate for *In Situ* Chemical Oxidation

DESCRIPTION

PersulfOx[®] SP is part of the PersulfOx[®] line of *in situ* chemical oxidation reagents which, when used for environmental remediation, is capable of destroying organic contaminants in groundwater and soil through powerful chemical oxidation reactions.

PersulfOx SP was formulated for use on projects specifying the use of persulfate and a separate chemical activation process such as alkaline activation, hydrogen peroxide activation, or iron activation. It can also be used as a follow-on treatment to REGENESIS' PersulfOx Catalyzed Persulfate technology.

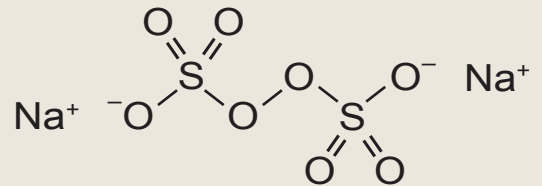


FIGURE 1:
SODIUM PERSULFATE CHEMICAL STRUCTURE

FEATURES & BENEFITS

- Formulated specifically for use with traditional chemical activation techniques¹ such as:
 - Alkaline activation
 - Hydrogen peroxide activation
 - Iron activation
- PersulfOx SP contains PersulfOx catalyst². Traditional methods of activation are known to be short-lived, requiring multiple reapplications of costly chemical activator. By replacing sodium persulfate with PersulfOx SP, the environmental professional gains all the benefits of traditional activation technologies PLUS the assurance that after the chemical activator is consumed, the catalyst remains behind. The remaining catalyst continues the formation of the desired pollutant destroying oxidation reactions.

COMPOSITION

- PersulfOx SP production begins with 100% environmental-grade sodium persulfate (Na₂S₂O₈) which is then blended with 2% of REGENESIS' patented PersulfOx catalyst technology.
- The mixture is a solid white powder at standard temperature and pressure.

FUNCTION

- When mixed with water PersulfOx SP forms a solution that can be mixed with soil or injected into subsurface groundwater along with a chemical activation technology (i.e. NaOH, hydrogen peroxide, chelated iron, etc.). Upon activation the product produces a suite of powerful oxidizing radicals which destroy a broad range of pollutants.
- Once the activating chemical is consumed, a level of radical formation is sustained as a result of the PersulfOx catalyst's persistence.

¹US and international patents apply. License to practice technologies granted by REGENESIS under agreement with FMC Corporation

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For more information on the use of PersulfOx SP contact your local representative or visit www.regenesisc.com.



REGENESIS

Advanced Technologies for Contaminated Site Remediation