



OXYPER® Sodium Percarbonate

Applications

OXYPER® Sodium Percarbonate is a very effective oxidizer and a convenient source of hydrogen peroxide. It is especially desirable when the remediation site is close to residential or commercial activities. It can be used for either **oxidation** or to **enhance bioremediation**.

Like hydrogen peroxide, OXYPER® Sodium Percarbonate can detoxify a broad range of contaminants including : sulfides, mercaptans, disulfides, phenols, organic amines, aldehydes, petroleum hydrocarbon and more.

Strengths

Where liquid hydrogen peroxide is impractical, OXYPER® Sodium Percarbonate a grade of sodium carbonate peroxyhydrate offers an alternative solution. OXYPER® Sodium Percarbonate has the power of hydrogen peroxide in a convenient solid form.

OXYPER® Sodium Percarbonate is :

- **Convenient.** For applications too small or sporadic to warrant a liquid bulk storage facility, OXYPER® Sodium Percarbonate is the answer. You can bring bags on site and use the product as needed. Because it is a dry, dust-free solid, OXYPER® Sodium Percarbonate is easy to handle and apply.
- **Stable.** OXYPER® Sodium Percarbonate has very low moisture content and very high stability.

OXYPER® Sodium Percarbonate can be used in several ways :

- **A 3-8% solution** can be produced and injected immediately in the soil or groundwater.
- OXYPER® Sodium Percarbonate **can be mixed with soil** in case of shallow contamination or with equipment that can deliver product while excavating the soil.
- These approaches to delivery **can be combined with other additives or reagents** to enhance the performance of OXYPER® Sodium Percarbonate for the oxidation of organic pollutants.
- OXYPER® Sodium Percarbonate can **also** be used **for bioremediation** if added as a very dilute solution.

Technical Information

Formula : $2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}_2$

CAS Number : 1563-89-4

Molecular Weight : 314

Physical Properties

Item	Typical Properties	Item	Typical Properties
Appearance	White, free flowing granular solid	Solubility in Water @ 20°C	15%
Morphology	Uniform spherical granules	Dissolution rate (2g/L @ 15°C)	90-95% after 2 min
Mean Particle Size	450-650µ		

Chemical Properties

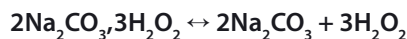
Item	Typical Properties	Item	Typical Properties
Hydrogen peroxide content (%)	27.6 min	Available Oxygen (%)	13 min
		pH (1% @ 20°C)	10.4 - 10.6

Solvay
Chemicals

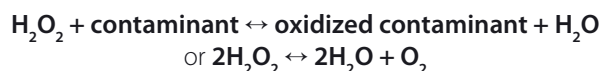


Chemical Properties (continuation)

OXYPER® Sodium Percarbonate dissolves in water to produce soda ash and hydrogen peroxide.



Hydrogen peroxide can oxidize substrates or decompose to water and oxygen :



Certificates

The plants, sales, purchasing and management of OXYPER® Sodium Percarbonate are ISO Certified.

Packaging

OXYPER® Sodium Percarbonate is available in bulk, Big Bags and PE-lined Paper Sacks

Storage and Handling

- Store in a cool, dry place.
- Keep away from heat and heat sources.
- Do not stack more than 5 bags high.
- Keep away from organics, acids, reducing agents and metallic contamination.
- Maintain two feet of spacing between pallets.

Safety

- Ensure all personnel who may come in contact with this material are aware of the potential hazards, first aid measures and the proper storage and use techniques outlined in the most recent Material Safety Data Sheet (MSDS).

SOLVAY CHEMICALS

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