



THE NEXT GENERATION OXIDIZING & ALKALINITY SOLUTION

Dual-action chemistry that delivers consistent oxygen release, raises pH, and recovers valuable struvite.



10%
AVAILABLE
OXYGEN

pH 11
RAISES pH

1

THE SCIENCE BEHIND PEROXIMAG™

PeroxiMag™ is a patent-pending magnesium peroxide compound that combines the power of hydrogen peroxide with the benefits of magnesium hydroxide. This unique dual-action chemistry delivers consistent oxygen release and raises pH, making it the smarter solution for modern wastewater treatment challenges.

DUAL-ACTION CHEMISTRY

MAGNESIUM PEROXIDE (MgO₂)
Provides 10% available oxygen for powerful oxidation.

MAGNESIUM HYDROXIDE (Mg(OH)₂)
Raises pH above 8.0 and provides alkalinity & buffering capacity.



HOW PEROXIMAG™ WORKS



OXYGEN RELEASE
Oxidizes organics, controls odors and pathogens.

RAISES pH & PROVIDES ALKALINITY
Stabilizes environment for treatment.

IDEAL FOR

Hydrogen Sulfide (H₂S) Control

Odor & Corrosion Control

Nutrient Removal

ECONOMICAL BENEFITS OF STRUVITE RECOVERY WITH PEROXIMAG™

CORROSION CONTROL
Protects infrastructure, extends asset life, and reduces costly repairs and replacements.

✓ Reduces corrosion rates up to 60%
✓ Extends equipment life 2x+

PHOSPHORUS REMOVAL
Removes phosphorus by crystallizing struvite, helping facilitate permit regulatory limits.

✓ Achieves > 90% phosphorus removal
✓ Avoid costly permit violations
✓ Support nutrient removal goals

INCREASED SOLIDS SETTLING
Improves settleability and dewaterability, reducing sludge volume and disposal costs.

✓ Improves solids capture
✓ Reduces sludge by up to 50%
✓ Lowers hauling & disposal costs

STRUVITE RECOVERY
Recovers struvite – a high-value, slow-release fertilizer – creating value from waste.

✓ Valuable fertilizer by-product
✓ Reduces chemical purchase costs
✓ Potential revenue stream

PeroxiMag™ turns a treatment challenge into a source of savings and sustainability.

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STRONGER PERFORMANCE. MAXIMUM VALUE.

PeroxiMag™ delivers more available oxygen and alkalinity in one solution, ensuring reliable performance in the most demanding environments.

KEY BENEFITS

- SLOW, CONTROLLED OXYGEN RELEASE**
Provides continuous oxidation for up to 1 year.
- RAISES pH & ALKALINITY**
pH 11 for superior performance.
- CONTROLS ODORS & CORROSION**
Targets H₂S and O&G at the source.
- PROTECTS INFRASTRUCTURE**
Reduces corrosion in pipes, pumps & tanks.
- IMPROVES TREATMENT EFFICIENCY**
Enhances biological processes & nutrient removal.
- ENVIRONMENTALLY RESPONSIBLE**
Safe to handle, uses VOCs, and leaves no harmful residues.

APPLICATIONS



THE SCIENCE BEHIND PEROXIMAG™

PeroxiMag™ is a magnesium peroxide compound that combines the power of hydrogen peroxide with the benefits of magnesium hydroxide. This unique dual-action chemistry delivers consistent oxygen release and raises pH, making it the smarter solution for modern wastewater treatment challenges.

TECHNICAL INFORMATION

TYPICAL PROPERTIES	
Form	Powder / Slurry
Active Ingredient	Magnesium Peroxide (MgO ₂)
Available Oxygen	10% (by weight)
pH (1% Solution)	~11.0
Solubility	Moderate
Bulk Density (Powder)	~0.8 g/cm ³
Storage Stability	Up to 1 Year
CAS Number	1335-26-8

TYPICAL DOSAGE GUIDELINES*	
APPLICATION	DOSAGE RANGE
Odor Control (H ₂ S)	50 – 200 ppm
Corrosion Control	50 – 100 ppm
BOD/COD Reduction	100 – 1000 ppm
Sludge Treatment	200 – 500 ppm
Nutrient Removal Support	50 – 200 ppm

*Actual dosage may vary based on site conditions.

HOW TO USE

- ✓ Determine dosage based on application needs and system conditions.
- ✓ Common applications: point lift stations, headworks, aeration basins, lagoons, holding tanks, collection systems.
- ✓ Apply as powder or slurry using dilute feed systems.
- ✓ Consult with OCPÉ specialists for site-specific dosing recommendations.

AVAILABLE IN



ENHANCED
TREATMENT
EFFICIENCY

REDUCES
ODORS &
CORROSION

IMPROVES
INFRASTRUCTURE
LIFESPAN

SUPPORTS
SUSTAINABLE
OPERATIONS

PARTNER WITH OCPÉ FOR SMARTER SOLUTIONS
OCPÉ is your trusted source for innovative odor control products and equipment. Our team of specialists help you optimize performance and protect your infrastructure.

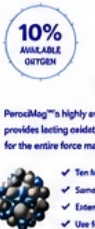
OCPÉ
ODOR CONTROL
PRODUCTS & EQUIPMENT

TOTAL REPLACEMENT FOR HYDROGEN PEROXIDE



10%
AVAILABLE
OXYGEN

pH ≥ 8.0



PEROXIMAG™ is highly available peroxide (in situ) provides lasting oxidation and oxygen release for the entire force main journey.

- ✓ Ten Mile, Highly Available Peroxide
- ✓ Same oxygen capacity
- ✓ Extended treatment times
- ✓ Use for long detention times
- ✓ Send partial dose, lower cap ex

WASTEWATER TREATMENT PLANT



10%
AVAILABLE
OXYGEN

INCREASED
pH &
ALKALINITY
THROUGHOUT
THE PLANT

INJECTION POINT



PeroxiMag™ Raises pH Above 8.0
Creates an aerobic environment that controls odors and corrosion from the start.

pH ≥ 8.0

RESULTS AT THE TREATMENT PLANT



PERFECT FOR LONG DETENTION TIMES
✓ Designed for extended flow paths like long force mains and collection systems.
✓ Proven to provide effective oxygen & pH all the way to the treatment plant.
✓ Maintains performance to every drop.

SAFE FOR LAND APPLICATION



Biosolids treated with PeroxiMag™ are safe for land application and support sustainable reuse.

THE SCIENCE & TECHNOLOGY OF PEROXIMAG™

DUAL-ACTION CHEMISTRY

Combines the power of magnesium peroxide and magnesium hydroxide for superior results.

MAGNESIUM PEROXIDE (MgO₂)
Provides 10% available oxygen for powerful oxidation.



HOW PEROXIMAG™ WORKS

H₂O₂ (In Situ)
Slow, controlled oxygen release

OXIDIZES
Sulfides, organics & pathogens

RAISES pH & PROVIDES ALKALINITY
Creates optimal environment for treatment

PERFECT FOR LONG DETENTION TIMES

- ✓ Designed for extended flow paths like long force mains and collection systems.
- ✓ Maintains 10% available oxygen and pH ≥ 8.0 all the way to the treatment plant.
- ✓ Ensures maximum oxidation, odor control, and process stability from start to finish.

WHY CHOOSE PEROXIMAG™?

- ✓ Ideal for long detention times & force mains
- ✓ Reliable performance in real-world conditions
- ✓ Improves treatment efficiency & reduces costs
- ✓ Supports nutrient recovery & sustainability
- ✓ Backed by advanced science & performance data
- ✓ Proven in the field. Trusted by professionals.

PACKAGING



CALL FOR PRICING



PeroxiMAG™
MAGNESIUM PEROXIDE

THE SMARTER CHOICE FOR WASTEWATER TREATMENT

**SLOW-RELEASE OXYGEN. BUILT-IN ALKALINITY.
SUPERIOR RESULTS.**

PeroxiMag™ is a dual-action solution that delivers slow-release oxygen (10–11%) for up to ONE YEAR while providing alkalinity (pH 11).

It supports biological treatment, prevents H₂S, enhances solids settling, and enables efficient struvite recovery — all in one step.



**10–11%
SLOW-RELEASE
OXYGEN**
FOR UP TO 1 YEAR



**A TRUE BASE
DELIVERS
ALKALINITY**



**SUPPORTS
BIOLOGICAL
TREATMENT**



**ENHANCES
STRUVITE
RECOVERY**



**IMPROVES
SOLIDS
SETTLING**



**PREVENTS H₂S &
PIPELINE
CORROSION**



**SAFER, STABLE,
EASIER TO HANDLE
(HAZARDOUS MATERIAL)**

PEROXIMAG™ vs HYDROGEN PEROXIDE

PEROXIMAG™ (MgO₂)

VS

HYDROGEN PEROXIDE (H₂O₂)

- ✓ Slow-release oxygen (10–11%) for up to ONE YEAR
- ✓ Provides built-in alkalinity (pH ~11)
- ✓ Enhances struvite (MgNH₄PO₄ · 6H₂O) recovery by supplying Mg²⁺ and optimal pH buffering
- ✓ Improves biological treatment & nutrient removal
- ✓ Promotes better solids settling & dewaterability
- ✓ Inhibits H₂S and prevents odors
- ✓ Safer, stable, powder or slurry — easier to handle
- ✓ Simplifies operations – one product, multiple benefits
- ✓ Lower total cost of ownership



- ✗ Short-lived oxygen release (minutes to hours)
- ✗ Acidic; lowers pH and requires caustic addition
- ✗ Can assist as a pretreatment to release bound nutrients and improve conditions, but does not supply Mg²⁺ or alkalinity for struvite formation
- ✗ Fast reaction; limited residual oxygen/alkalinity benefit for long-term biological support
- ✗ May not fully prevent H₂S long-term
- ✗ Hazardous liquid; requires specialized storage & handling
- ✗ Multiple chemicals needed to achieve same results (magnesium source, alkali, pH control)
- ✗ Higher operational complexity and cost



DUAL-ACTION CHEMISTRY: SLOW-RELEASE OXYGEN + MAGNESIUM HYDROXIDE FORMATION



Generates oxygen gradually to support microbial activity and nutrient removal



Produces magnesium hydroxide to raise pH and alkalinity



Supplies magnesium essential for struvite precipitation

SUPPORTS STRUVITE RECOVERY DIRECTLY



Supplies magnesium source and optimal pH for struvite precipitation



Reduces nutrient load and improves sustainability



REAL-WORLD BENEFITS FOR YOUR PLANT



ENHANCES BIOLOGICAL TREATMENT

Supports biomass activity for better BOD, COD, and ammonia removal.



ENABLES STRUVITE RECOVERY

Recovers nutrients, reduces costs, and creates a valuable byproduct.



IMPROVES SOLIDS SETTLING

Produces denser, easier to dewater solids and reduces sludge volume.



PREVENTS ODORS & CORROSION

Inhibits H₂S and protects infrastructure for longer asset life.



BUILDS & MAINTAINS ALKALINITY

Stabilizes pH naturally, reducing chemical demand and operational swings.



ONE PRODUCT. MULTIPLE BENEFITS.

Simplify your chemical program and improve plant performance.

IDEAL FOR MULTIPLE WASTEWATER APPLICATIONS



WASTEWATER TREATMENT PLANTS



NUTRIENT REMOVAL & BIOLOGICAL PROCESSES



STRUVITE RECOVERY SYSTEMS



SLUDGE TREATMENT & DEWATERING



LAGOONS & AERATED PONDS



INDUSTRIAL WASTEWATER APPLICATIONS

OCPE™
ODOR CONTROL PRODUCTS & EQUIPMENT

Odor Control Products and Equipment, LLC
1200 Americana Blvd., Suite 1014
Sanford, FL 32771

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sales@municipalodorcontrol.com
www.municipalodorcontrol.com



TRUSTED BY
PROFESSIONALS
ACROSS THE USA

PeroxiMag™ (magnesium peroxide) is a hazardous material. Always read and follow the SDS and label instructions before use.



THE NEXT GENERATION OXIDIZING & ALKALINITY SOLUTION

Dual-action chemistry that delivers consistent oxygen release, raises pH, and recovers valuable struvite.



RELEASES OXYGEN
FOR ONE YEAR



pH 11
RAISES
pH



MgO₂
MAGNESIUM
PEROXIDE



SLOW,
CONTROLLED
OXYGEN RELEASE



STRONGER,
SMARTER,
MORE EFFECTIVE.

THE SCIENCE BEHIND PEROXiMAG™

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Active Ingredient	Magnesium Peroxide (MgO ₂)
Available Oxygen	10% (by weight)
pH (1% Solution)	~11.0
Solubility	Moderate
Bulk Density (Powder)	~0.8 g/cm ³
Storage Stability	Releases oxygen for one year
CAS Number	1335-28-8
Hazard Classification	Oxidizer (S.1)

TYPICAL DOSAGE GUIDELINES* (TYPICAL STARTING RANGES)

APPLICATION	DOSAGE RANGE
Odor Control (H ₂ S)	50 - 200 ppm
Corrosion Control	50 - 150 ppm
BOD/COD Reduction	100 - 500 ppm
Sludge Treatment	200 - 500 ppm
Nutrient Removal Support	50 - 200 ppm

*Actual dosage may vary based on site conditions.

HOW TO USE

- ✓ Determine dosage based on application needs and system conditions.
- ✓ Common application points: lift stations, headworks, aeration, basins, baffle holding tanks, collection systems.
- ✓ Apply as powder or slurry using dilute feed systems.
- ✓ Consult with OCPE specialists for site-specific dosing recommendations.

AVAILABLE IN



POWDER
25kg (55lb) Bags



SLURRY
275-Gallon (1041L) Totes



ENHANCED
TREATMENT
EFFICIENCY



REDUCES
ODORS &
CORROSION



IMPROVES
INFRASTRUCTURE
LIFESPAN



SUPPORTS
SUSTAINABLE
OPERATIONS

Odor Control Products and Equipment, LLC

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STANDALONE TECHNOLOGY



PEROXiMAG™

STREAMLINES CHEMICAL INVENTORIES

CONSISTENT RESULTS

PeroxiMag™ is highly insoluble and slow dissolving, providing lasting stability and oxygen in the entire system, even with long detention times.



- ✓ 1-5 Microns, High Purity Powder
- ✓ Long-Lasting Peroxygen Stability
- ✓ Consistent & Reliable Performance
- ✓ Ideal for Long Detention Times
- ✓ Small Particle Size for Better Mixing

KEY BENEFITS



NUTRIENT REMOVAL



Enhanced biological performance for improved nitrogen & phosphorus removal.



ODOR CONTROL



PeroxiMag™ helps reduce odors at the source.



PEROXiMAG™

ALKALINITY. | OXIDIZATION. | PURE RESULTS.



ALKALINITY



OXIDIZATION



PURE RESULTS.