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Loudwolf LW-HGSO4-4-H

Loudwolf Magnesium Sulfate Heptahydrate Instruction Manual

Model: LW-HGSO4-4-H | 4 Ounce, 99.9% Pure USP Food Grade

1. Introduction

This instruction manual provides essential information for the safe handling, storage, and various applications of Loudwolf Magnesium Sulfate Heptahydrate. Also known as Epsom Salts, this product is an inorganic mineral salt ($MgSO_4 \cdot 7H_2O$) presented as fine crystals. It is 99.9% pure and meets USP Food Grade standards.
The product is supplied in a durable, translucent polypropylene plastic bottle with a leakproof screw-top, ensuring product integrity and ease of use.

2. Safety Information and Precautions

WARNING: This product is labeled as an irritant. Always handle with care.

- **General Handling:** Avoid direct contact with eyes and prolonged contact with skin. In case of contact, rinse thoroughly with water.
- **Ingestion:** While USP Food Grade, ingestion in large quantities can act as a laxative. Consult a medical professional if accidental ingestion occurs.
- **Inhalation:** Avoid inhaling dust. Use in a well-ventilated area.
- **Storage:** Store in a cool, dry place, away from direct sunlight and moisture. Keep container tightly closed when not in use.
- **Keep Out of Reach:** Keep out of reach of children and pets.
- **Disposal:** Dispose of unused product and packaging according to local regulations.



Image 1: Side view of the Loudwolf Magnesium Sulfate Heptahydrate bottle, showing the NFPA hazard diamond indicating low flammability (0), low health hazard (1), and no reactivity (0). A warning label for irritant is also visible.

3. Product Overview

Loudwolf Magnesium Sulfate Heptahydrate is a high-purity chemical compound suitable for a variety of applications.

- **Chemical Name:** Magnesium Sulfate Heptahydrate
- **Chemical Formula:** MgSO4·7H2O
- **Common Name:** Epsom Salts
- **Purity:** 99.9% Pure
- **Grade:** USP Food Grade
- **Texture:** Fine Crystals
- **CAS Number:** 10034-99-8
- **Packaging:** 4 Ounce (113 Grams) in 1 durable polypropylene plastic bottle with a leakproof screw-top.



Image 2: Front view of the Loudwolf Magnesium Sulfate Heptahydrate bottle, clearly displaying the brand name, chemical name, formula, weight (4 ounces / 113 grams), and purity (99.9% Pure / USP Food Grade). A US quarter is placed next to the bottle for scale.

4. Setup and Handling

Upon receiving your Loudwolf Magnesium Sulfate Heptahydrate, inspect the bottle for any signs of damage or tampering. The bottle is sealed in plastic with a shrink-wrapped screw-top for your protection.

- **Unpacking:** Carefully remove the outer packaging and shrink wrap.
- **Initial Inspection:** Ensure the screw-top is securely fastened.
- **Storage:** Transfer to a designated storage area that is cool, dry, and protected from moisture.
- **Dispensing:** Use clean, dry utensils when dispensing the crystals to prevent contamination. Reseal the bottle immediately after use.

5. Operating and Usage Instructions

Magnesium Sulfate Heptahydrate has a wide range of applications. Always research and understand the specific

requirements for your intended use.

5.1. Bath Salt Ingredient

As a traditional bath salt, Magnesium Sulfate is commonly used for relaxation and muscle soothing.

- **Preparation:** Fill a standard bathtub with warm water.
- **Application:** Add 1-2 cups (approximately 200-400 grams) of Magnesium Sulfate Heptahydrate to the running water to help it dissolve.
- **Soaking:** Soak for 15-20 minutes.

Note: Consult a healthcare professional before use if you have any medical conditions.

5.2. Laxative (Small Doses)

Magnesium Sulfate can act as a saline laxative. Use only as directed by a healthcare professional.

- **Dosage:** Typically, 2-6 teaspoons dissolved in a full glass of water.
- **Administration:** Drink the solution. Effects usually occur within 30 minutes to 6 hours.

Important: *Do not exceed recommended dosage. Prolonged use or overdose can lead to dehydration and electrolyte imbalance. Consult a doctor before using as a laxative.*

5.3. Brewing Salt (Beer Production)

In brewing, Magnesium Sulfate is used to adjust water chemistry, contributing to beer flavor and yeast health.

- **Purpose:** Adds magnesium (a yeast nutrient) and sulfate (enhances hop bitterness, creates a drier finish).
- **Dosage:** Varies significantly based on water profile, beer style, and desired mineral content. Typically measured in grams per gallon.
- **Application:** Dissolve in brewing water before mashing or boiling.

Consult brewing resources and water calculators for precise dosage recommendations.

5.4. Stony Coral Nutrient

Magnesium is a vital element for stony corals in marine aquariums. Magnesium Sulfate Heptahydrate can be used to supplement magnesium levels.

- **Preparation:** Dissolve the required amount in reverse osmosis (RO) or distilled water to create a stock solution.
- **Dosage:** Follow specific aquarium dosing guidelines to slowly raise magnesium levels to the desired range (typically 1250-1350 ppm).
- **Monitoring:** Regularly test aquarium water parameters to avoid overdosing.

Overdosing can be harmful to marine life. Always dose slowly and monitor.

5.5. Desiccant

Magnesium Sulfate can act as a desiccant, absorbing moisture from its surroundings.

- **Application:** Place a small amount in a breathable container within an enclosed space where moisture reduction is desired.
- **Monitoring:** Replace when crystals appear to have absorbed maximum moisture (may clump or become wet).



Image 3: A close-up view of the fine crystals of Magnesium Sulfate Heptahydrate poured onto a black plate, demonstrating the product's texture. A US quarter is visible for size comparison.

6. Maintenance and Storage

Proper storage is crucial to maintain the quality and efficacy of Magnesium Sulfate Heptahydrate.

- **Container:** Always keep the product in its original, tightly sealed polypropylene bottle.
- **Environment:** Store in a cool, dry place, ideally between 15°C and 25°C (59°F and 77°F).
- **Moisture Protection:** Protect from humidity and direct exposure to air, as the product is hygroscopic (absorbs moisture).
- **Light:** Avoid direct sunlight.
- **Separation:** Store away from incompatible materials and strong oxidizing agents.

7. Troubleshooting

While Magnesium Sulfate Heptahydrate is generally stable, some issues may arise due to improper handling or storage.

Issue	Possible Cause	Solution
Crystals appear clumpy or wet	Exposure to humidity or moisture. Magnesium Sulfate is hygroscopic.	Ensure the bottle is tightly sealed after each use. Store in a dry environment. If clumping is minor, it may still be usable, but efficacy might be reduced for applications requiring precise measurement.
Product discoloration	Contamination or exposure to incompatible substances.	Avoid using contaminated utensils. If discoloration is significant, it is recommended to discard the product.
Difficulty dissolving	Water temperature too low or insufficient agitation.	Use warm water for better solubility. Stir or agitate the solution thoroughly until dissolved.

8. Specifications

Attribute	Detail
Product Name	Magnesium Sulfate Heptahydrate
Brand	Loudwolf
Model Number	LW-HGSO4-4-H
CAS Number	10034-99-8
Purity	99.9% Pure
Grade	USP Food Grade
Texture	Fine Crystals
Net Weight	4 Ounces (113 Grams)
Packaging	1 Polypropylene Plastic Bottle
UPC	640052707368
Manufacturer	Loudwolf Industrial & Scientific



Image 4: Back view of the Loudwolf Magnesium Sulfate Heptahydrate bottle, displaying the UPC barcode (640052707368) and CAS number (10034-99-8), along with a website for more information.

9. Warranty and Support

For questions regarding product quality, usage, or any other inquiries, please contact Loudwolf Industrial & Scientific directly.

- **Manufacturer:** Loudwolf Industrial & Scientific
- **Website:** www.loudwolf.com (as indicated on product label)
- **Customer Service:** Refer to the manufacturer's website for contact information.

Loudwolf stands by the quality of its products. Please retain your purchase receipt for any support inquiries.

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