

Old Bridge Chemicals, Inc.

Zinc Sulfate Powder (ZnSO₄•H₂O)

Old Bridge Zinc Sulfate is a spray dried, high purity, pure white, odorless and water-soluble powder. It is ideally suited for providing the nutritional zinc requirements in animal feeds. Rapid dispersion and solubility are beneficial in production of foliar sprays. Old Bridge Zinc Sulfate meets the high chemical purity requirements for production of water treatment chemicals, chemical compounding and the production of rayon.

TYPICAL ANALYSIS

| | |
|---|----------------|
| Zinc (Zn) | 35.5% minimum |
| Sulfur (S) | 17.5% minimum |
| Soluble Zinc (Zn) derived from Zinc Sulfate | 35.5% minimum |
| Iron (Fe) | 10 ppm maximum |
| Cadmium (Cd) | 5 ppm maximum |
| Arsenic (As) | 1 ppm maximum |
| Mercury (Hg) | 1 ppm maximum |
| Antimony (Sb) | 5 ppm maximum |

Screen Analyses (Typical)

| | |
|-----------|-----|
| +100 mesh | 22% |
| +200 mesh | 55% |
| +325 mesh | 90% |
| -325 mesh | 10% |

USES

Zinc is one of the essential elements for plant and animal life. Zinc deficiency in animals was not recognized until 1934. Today's sophisticated farmer understands the importance of zinc in maintaining normal health and increased yields, especially in swine and poultry. In swine, a lack of zinc in the diet causes parakeratosis, characterized by dermatitis, diarrhea, vomiting, decreased appetite, severe weight loss and eventual death. In poultry, zinc deficiency results in loss of appetite, growth retardation, blood disorders, arthritic deformities, bone diseases and death. Zinc supplements to the diet often cause prompt recovery. Zinc Sulfate is the optimum source of zinc in animal feeds as the nutritional source of zinc due to its biological availability.

In plants zinc serves as a growth hormone and influences protein synthesis. Zinc deficiency often causes stunting of the plant, yellowing of the leaves, and decreased yields of seed, grain, vegetables or fruit. In the United States zinc deficient soils are found in 32 states. At least 41 crops are reported to be affected by zinc deficiency. Spray applications of a four to six percent solution may be employed on trees during the dormant period. Zinc Sulfate is often used on crops such as pecan, deciduous fruits, peanuts, cotton, corn, vegetables and especially citrus. Since zinc is required in such small amounts it is classified as a trace element or micronutrient.

Recommendations for the agricultural use of Zinc Sulfate should be obtained from the United States Department of Agriculture or your State department of agriculture.

Zinc Sulfate is used in the manufacture of viscose rayon fiber. It is one of the ingredients in the spinning bath where it promotes coagulation and crenellation of the fiber. Zinc Sulfate Solution is the ideal source of zinc in the production of Zinc Stearate. It is used as a catalyst in numerous chemical operations. In water treatment, Zinc Sulfate finds application as a corrosion inhibitor in cooling towers and municipal water systems. Zinc Sulfate also finds use in production of pigments, preservation and clarification of glue, in flame proofing compounds, as a mining flotation agent, in wood preservatives, in electro metallurgy and electro galvanizing.

STORAGE

Store Zinc Sulfate in a cool and dry place. Zinc Sulfate is stable at normal temperatures and pressures.

SAFE HANDLING

If exposure cannot be maintained at or below established OSHA guidelines, respiratory protection must be provided in accordance with 29 CFR 1910.34 requirements. Wear appropriate protective clothing and chemical resistant gloves as needed to prevent skin contact. Clean contaminated clothing and protective equipment before reuse. Wear splash proof or dust proof safety goggles. Wash thoroughly after handling Zinc Sulfate. Refer to Material Safety Data Sheet for further information.

SUPPLY

Zinc Sulfate is supplied in 50-pound bags, 40 bags to a pallet and stretch wrapped. Old Bridge also ships this product in supersacks and as a solution in tankwagons. In containers weighing less than 1,000 pounds, this product is exempt from DOT regulations. In containers weighing more than 1,000 pounds it is shipped as: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (Zinc Sulfate), UN3077, 9, PGIII, ERG 31

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