

COPPER SULPHATE (B.P.)

(Blue Vitriol, Blue Stone)

Water Soluble Powder

Copper Sulphate has different actions: Astringent, antiseptic, fungicidal, algacidal, molluscicidal, caustic & haemostatic.

TOPICAL USE:

- For wounds and ulcers: 0.1-5% antiseptic solution.
- Foot Bath: 5-10% solution twice daily for prevention and treatment of foot rot in sheep and cattle.
- Prevention of post-dipping lameness in sheep: 0.03% solution is added to the dipping bath.
- Combination with iron-sulphate and zinc sulphate to form a dressing in case of canker of the horse foot (0.5:1:1) respectively.
- For proliferative dermatitis, excessive granulation tissues, non-parasitic eczema and dermatosis: 0.1-2%.
- Caustic powder to warts.
- Skin ulcerative wounds and necrotic lesions: Remove dead tissues and debris firstly, then dust at concentration of 5 ppm twice a day.
- Foot lesions in FMD cases: wash with disinfectant solution, then apply a mixture of copper sulphate and tar (1:100) respectively.

INTERNAL USE:

- Cases of severe scouring in cattle due to excess molybdenum in pasture grass: Give daily 2 gm / cow and 1 gm / young animal, during grazing period as a drench or dietary supplement.
Not given to calves while on milk or milk substitutes.
- Swayback prevention in lambs: The pregnant ewes in the affected areas are given copper sulphate, as a drench during gestation period:
Per animal (1.5 gm) at 8 weeks, and then at (4) weeks before lambing.
- In copper deficient areas: add at rate of 0.5 % to the salt.
- Rabbits: For improvement of growth performance and as an anabolic effect, reduction of enteritis losses and damage of calcinosis: 200 ppm in feed.
- Feed additive as a production enhancer for dairy cattle and goats:-
Mix 250 gm / kg feed, then give a dose of (0.5-2 gm) from the mixture per animal
- Cases of aspergillosis in chickens, trichomoniasis and hexamitiasis in turkeys.
(1:2000 solution with drinking water for 3-5 days.).
- Trichomoniasis in ostrich: 500-750 mg / litre of drinking water or 1 gm per kg of feed.
- Used as oral antidote in phosphorous poisoning, which acts by forming an insoluble precipitate when given as (0.2-1%) solution.

OTHER USES:

- Fungicidal and algacidal: (0.5-1) mg / litre of water for reservoirs, ponds, dipping baths, and swimming pools.
- Potent molluscicidal for killing the fresh-water snails (That act as intermediate hosts for liver flukes and schistosomiasis): Mix copper sulphate with sand (1:4 parts respectively) and broadcast over the affected areas at rate of 4 kg / 1000 square meters.
Two applications a year is sufficient.

WARNINGS: Toxic, strong irritant to skin and mucous membranes.

MEDICAL TREATMENT FOR POISONING:

- Egg-white (albumen), milk or magnesia, beside other symptomatic therapy.
- Na-Ca edetate can be used to chelate copper.

STORAGE:

- Keep in a dry, dark place below 30 °C.
- Keep away from children.

PACKING: (500, 1000) GM.