

## Specification Of Weierli Disinfectant

### Potassium Monopersulfate Compound



#### 【Chemical Composition and Physical Features】

**Ingredients:** potassium hydrogen persulfate, sodium chloride, organic acid, surfactant, all ingredients of food or medical level, a minimum content of 50.0% potassium hydrogen persulfate compound salt

**Product Characters:** Powder or Light red 1g round tablets, almost scentless or with slight lemon flavor

**Stability:** The reactive oxygen only drops by 0.014 after 26 weeks at 20°C; by 0.021 after 26 weeks at 37°C; The product is not affected by organics or hard water. Unopened products have an available chlorine of above 10.0% after 36 months at 25°C.

**Solubility:** Easily soluble in lukewarm water to form transparent colorless or light red solution

**Corrosion:** Has no corrosive effect on leather and stainless steel when applied directly on the same

**PH:** 3.5~7.0

### 【Mechanism】

Through chain reaction in water, the products produces hypochlorous acid and nascent oxygen, oxidates and chlorinates pathogens, and disturbs DNA and RNA synthesis of pathogens, causing the denaturation and solidification of pathogen protein, hence disturbing the activity of pathogen enzyme system, affecting its metabolism, increasing membrane permeability, to cause the loss of enzyme and nutrition. As a result, pathogens are dissolved and ruptured. The organic acid and low-PH environment work together to kill pathogens.

### 【Product Feature】

This product has been registered in multiple countries and regions in Europe and Asia and has been used extensively because of its favorable price performance ratio. It has powerful killing effect on all viruses, bacteria, and its bacillus, mycoplasma, fungi, and coccidia oocysts infecting people and animals. It is especially effective in killing foot and mouth disease virus, ring virus, coronal virus, flu virus (such as avian influenza), herpes virus, adeno virus, respiratory syncytial virus, intestinal virus, hepatitis A virus, oral herpes virus, epidemic hemorrhagic fever virus, vibrio parahaemolyticus, fungi, mold, and escherichia coli.

**Broad spectrum, instant effect:** In proper proportion, the product effectively kills virus, bacteria and its bacillus, mycoplasma, fungi, and coccidia oocysts within 5-10 minutes.

**Permeability:** The product has favorable permeability in hard water and under low temperature conditions and can permeate into the interior of many materials (such as lumber) and kill the bacteria inside the materials.



**Super-stability and lasting effect:** Insusceptible to the influence of temperature, organics, water quality, or PH value.

**Convenience:** Easy to transport or store, easily soluble in warm water, easy to prepare solution with precision

**Safety:** At the proper usage thickness, the product is non-corrosive and non-irritant to the skin or the respiratory tract, safe to man and animals. It does not leave any mark on objects and does not harm machinery or fiber. It can be used for animal disinfection, human disinfection, hand disinfection, clothes and equipment soaking, with no occupational exposure restrictions, no side effects, and no irritation.

**Environmental friendliness:** Easy to decompose, no pollution to the environment or water

**Extensive effects, multiple usages:** One-time cleaning, disinfection, and sterilization for places with the presence of pathogens

### 【Application Scope】

This product can be extensively used in livestock and poultry farms, animal farms, disaster-struck (including diseases and natural disasters) environments, vet operation rooms, food processing factories, including soaking and spraying disinfection for livestock and poultry surface and stables; disinfection for the air and drinking water; aquatic water disinfection for fish and shrimp, prevention and treatment of fish and shrimp viruses and bacteria; environmental control disinfection; pipeline disinfection, equipment and utensils sterilization, cleansing, and clothes washing; personal sanitation; disinfection at animal hospitals; disinfection for transport, food processing equipment, and public places.

### 【Dosage】

Environment, drinking equipment, and air disinfection: 1:200—400; terminal disinfection, equipment disinfection, hatchery disinfection, and foot basin disinfection: 1: 200; drinking water disinfection: 1:1000—2000; livestock and poultry surface disinfection: 1:1000—1500;

Aquatic water disinfection: 250~500g per mu\*m water (666.67 m3); pond clearing: 500g per mu\*m water (666.67 m3).

For specific pathogens:



Item	Dilution	Action Time, min	Kill Rate, %
Escherichia coli (8099)	1:1000	10	100
Candida albicans	1: 100	20	100
Staphylococcus aureus (ATCC 6538)	1:1000	10	100
Bacillus subtilis var. bacillus (ATCC 9372)	1:100	10	100
Streptococcus	1:800	10	100
Avian influenza virus (H5N1)	1:800	10	100
New Castle disease virus	1:800	10	100
Polio virus	1: 2500	10	100
Foot and mouth disease virus	1:1000	10	100
Classical swine fever virus	1:200	10	99.9
Swine vesicular disease	1:400	10	99.9
Tge	1:450	10	99.9
Ring virus	1: 250	10	99.9
Bursal disease virus	1: 400	10	99.9
Coronal disease virus	1: 200	10	99.9

**【toxicity test】** acute oral toxicity in mice  $LD_{50} > 4200 \text{ mg/kg}$  (weight). The product has no distortion effect on male mice sperm; no irritation to the body surface of rabbits at 20g/L; no toxic effects at 20 mg/ml in embryo tests.

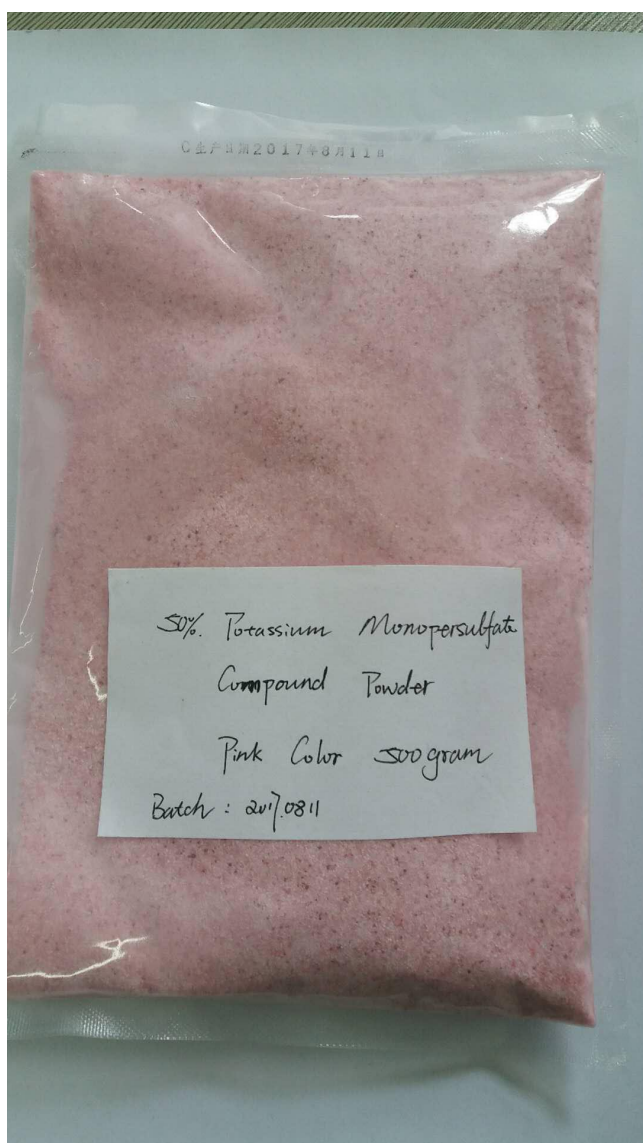
**【Notes】** Store it in well-ventilated conditions. Use the product extemporaneously. Do not mix it or use it with alkali substances. After using up the product, do not dispose the packing randomly. Take heed to personal protection when using the product.

**【Specification】** Powder, effervescent tablets

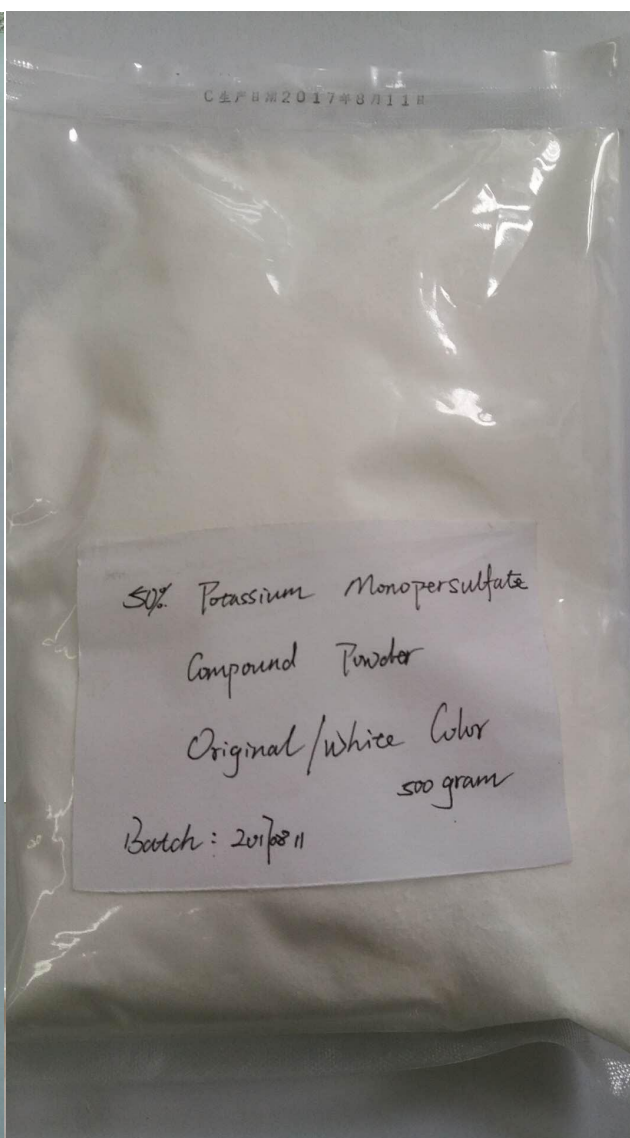
**【Storage】** Keep the product under sealed, shade, dry and cool conditions.



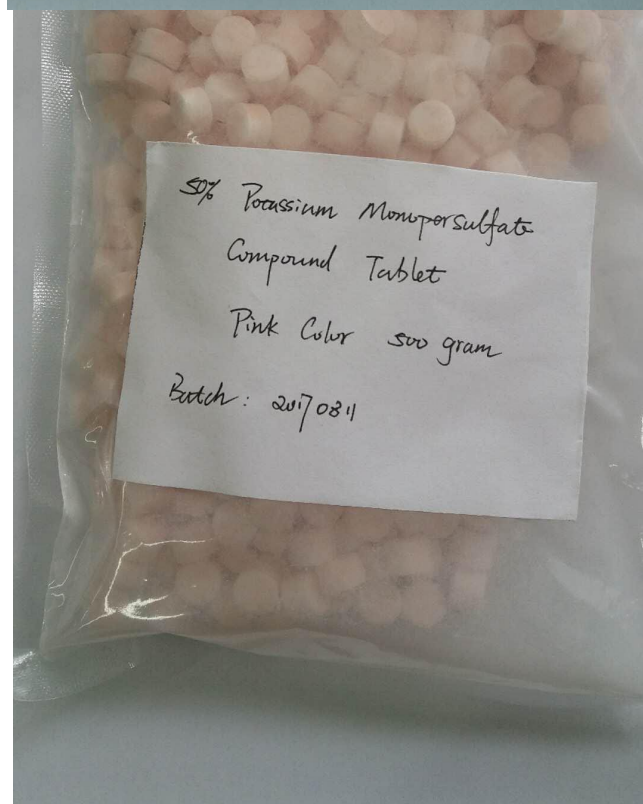




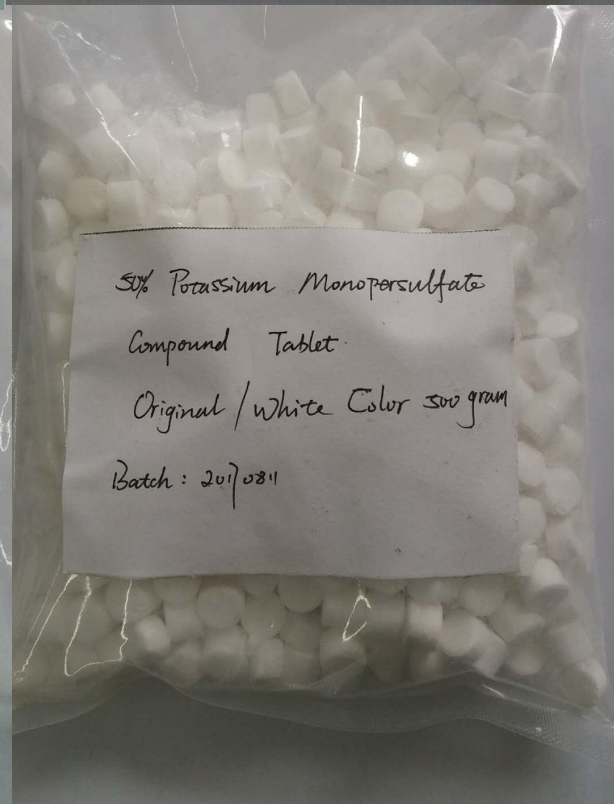
50% Potassium Monopersulfate  
Compound Powder  
Pink Color 500 gram  
Batch : 20170811



50% Potassium Monopersulfate  
Compound Powder  
Original/White Color  
500 gram  
Batch : 20170811



50% Potassium Monopersulfate  
Compound Tablet  
Pink Color 500 gram  
Batch : 20170811



50% Potassium Monopersulfate  
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