

(1) IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT: VIRKON-S EPA REG # 62432-1
 IMPORTER: Pharmecal Research Laboratories
 Naugatuck, CT 06770
 Tel: 800-243-5350

Virkon is the trade name of a disinfectant active against viruses, bacteria, and fungi pathogenic to animals and poultry. It is composed of peroxygen compounds, organic acids, surfactant and buffer.

The information provided in this Material Safety Data Sheet refers to the Virkon S in-use solutions, unless otherwise stated.

SECTION 1 - MANUFACTURING INFORMATION

Product is manufactured by Antec International, Windham Road, Chilton Industrial Estate, Sudbury, Suffolk, CO10 6XD, England

SECTION 2 - COMPOSITION INFORMATION

Active Ingredients

Potassium peroxymonosulfate 20.4%
 Sodium Chloride 1.5%

Equivalent to 9.75% available chlorine

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point Not Applicable
 Vapor Pressure Not Applicable
 Vapor Density Not Applicable
 Evaporation Rate Not Applicable
 Solubility in Water Freely soluble in water approximately 65g/l at 20°C (68°F)
 Specific Gravity 1.07
 Melting Point Not Applicable
 Appearance Yellow liquid

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point Not Applicable
 Flammable Limits Not Applicable
 Extinguishing Media Water, Dry Powder, CO₂
 Special Fire Fighting Procedures Not Applicable

SECTION 5 - HEALTH - HAZARD DATA

Acute Dermal Toxicity:

Powder: LD₅₀ greater than 2.0g/kg in rabbits

Acute Oral Toxicity:

Powder: LD₅₀ of 1.70g/kg in male rats and 1.16g/kg in female rats

Dilution: LD₅₀ of 4123 mg/kg in male and female rats. This is considered to be slightly toxic (LD₅₀ 500-5000mg/kg)

Acute Inhalation Toxicity:

Powder: LC₅₀ greater than 6.147mg/l of air over 4 hours in male and female rats.

Dilution: LC₅₀ @ 4 hour exposure is greater than 6 mg/l (by analytical determination). Test article was calculated at a 5% w/w dilution.

Guinea Pig Dermal Sensitisation:

Powder does not appear to be a primary skin irritant, fatiguing agent or skin sensitizer.

Dilution: No risk phrase is required for VIRKON 1% solution in respect to its skin sensitisation potential. Does not appear to be a primary skin irritant.

Primary Skin Irritation: The powder is corrosive to the skin of rabbits with an irritation index of 7.00. A dilution of 5% results in an irritation index of 0.08 in rabbits.

Primary Eye Irritation: The powder is corrosive to rabbits' eyes. A dilution of 5% produces conjunctival irritation.

Effects of Overexposure: Inhalation of dust may cause choking, coughing or wheezing. A 1% solution is normally non-irritating.

Emergency First Aid

Hazards To Humans and Domestic Animals - Danger, powder is corrosive. Causes skin burns and irreversible eye damage. Harmful if swallowed, absorbed through skin or inhaled. Do not get in eyes, on skin, or on clothing. Wear protective clothing and rubber gloves. Avoid breathing dust. Wear goggles, face shield or safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Corrosive statement refers to powder only, not in-use solution.

Practical Treatment:

If in eyes, hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get prompt medical attention.

If on skin, wash with plenty of soap and water. Get medical attention if irritation persists.

If inhaled or symptoms of coughing, choking or wheezing are troublesome, remove to fresh air and seek medical attention.

If swallowed, drink promptly a large quantity of water. Avoid alcohol. Get immediate medical attention.

Notice to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 6 - REACTIVITY DATA

Stability: Solution is stable for 7 days.

Conditions To Avoid: Moisture, direct sunlight and excessive heat.

Incompatibilities: Avoid alkaline materials.

Hazardous Decomposition Products: Releases sulfur dioxide gas upon heating above 70°C (158°F).

SECTION 7 - SPILL OR LEAK PROCEDURE

Contain spilled material. Neutralize and then dispose of material in accordance with all Federal, State, and Local Regulations.

CHEMICAL NEUTRALIZATION:

Treating Virkon S 1% with an alkali will expedite the degradation of the oxidizing system, and neutralize the acidity. By adding Sodium Bicarbonate at a rate of 30g per liter of Virkon S 1% solution, the pH will raise to approximately 7.6, which is most beneficial when considering neutralization. This equates to 114 grams or 4 ounces of Sodium Bicarbonate per 1 US gallon of Virkon S 1:100 (1%) solution.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Dust/Mist Respirator N95 3M # 8210

Protective Clothing: PVC Gloves, Goggles

SECTION 9- TRANSPORTATION INFORMATION

TRANSPORTATION INCIDENT INFORMATION:

NOT TRANSPORTED IN THIS FORM

DOT IDENTIFICATION NUMBER:

N/A

SHIPPING DESCRIPTION:

NOT TRANSPORTED IN THIS FORM

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