



**Virkon® Greenhouse**

Version 2.1

Revision Date 05/09/2014

Ref. 130000135147

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Virkon® Greenhouse  
MSDS Number : 130000135147  
Product Use : Disinfectant, Cleaning agent  
Manufacturer : Antec International Limited  
Windham Road  
Sudbury / Suffolk - CO10 2XD  
United Kingdom  
Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

Potential Health Effects  
Skin : Irritating to skin.  
Eyes : Risk of serious damage to eyes.  
Inhalation : May cause irritation of respiratory tract.  
Ingestion : May be: Harmful if swallowed.  
Carcinogenicity  
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**


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Component	CAS-No.	Concentration
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8	40 - 55 %
Sulphamidic acid	5329-14-6	4 - 6 %
Sodium chloride	7647-14-5	1 - 5 %

**SECTION 4. FIRST AID MEASURES**

- Skin contact : Wash off immediately with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Consult a physician.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
- Inhalation : Remove from exposure, lie down. If victim has stopped breathing: Artificial respiration and/or oxygen may be necessary. Consult a physician.
- Ingestion : Do NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician immediately.
- General advice : Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.

**SECTION 5. FIREFIGHTING MEASURES**

- Flammable Properties
- Flash point : not applicable
- Thermal decomposition : > 50 °C (122 °F)
- Fire and Explosion Hazard : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous decomposition products (see also section 10)



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- Suitable extinguishing media : The product itself does not burn., Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : Carbon dioxide (CO2)
- Firefighting Instructions : Wear self-contained breathing apparatus and protective suit.  
The product itself does not burn.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Evacuate personnel to safe areas. Use personal protective equipment.
- Spill Cleanup : Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.
- Accidental Release Measures : Do not flush into surface water.  
Dispose of in accordance with local regulations.

**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Avoid dust formation in confined areas. Do not breathe dust or spray mist. Provide adequate ventilation. Avoid contact with skin and eyes. For personal protection see section 8.  
Wash hands before breaks and immediately after handling the product.  
Regular cleaning of equipment, work area and clothing.
- Storage : Protect from contamination. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in original container.  
Keep away from: Combustible material Strong bases  
Stable at normal ambient temperature and pressure.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering controls : Ensure adequate ventilation.
- Personal protective equipment
- Respiratory protection : Provide adequate ventilation. Use NIOSH approved respiratory protection.
- Hand protection : Additional protection: Rubber gloves
- Eye protection : Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of material.
- Skin and body protection : Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.
- Exposure Guidelines  
Exposure Limit Values

None established.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form : powder
- Color : pink
- Odor : pleasant, sweet
- pH : 2.35 - 2.65  
(1% solution in water)
- Oxidising Substance : The substance or mixture is not classified as oxidizing.
- Specific gravity : 1.07
- Bulk density : 0.981 GJ
- Water solubility : 65 g/l at 20 °C (68 °F)

**SECTION 10. STABILITY AND REACTIVITY**

- Conditions to avoid : Exposure to moisture.
- Incompatibility : Strong bases Combustible material, Halogenated compounds, Heavy metal salts



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Hazardous decomposition products : Oxygen, Chlorine, Sulphur oxides , Sulphur dioxide , Hypochlorite  
 Hazardous reactions : No dangerous reaction known under conditions of normal use.

### SECTION 11. TOXICOLOGICAL INFORMATION

Virkon® Greenhouse  
 Inhalation 4 h LC50 : 3.7 mg/l , rat  
 (Data on the product itself)

Dermal LD50 : > 2,200 mg/kg , rat  
 (Data on the product itself)

Oral LD50 : 4,123 mg/kg , rat  
 (Data on the product itself)

Skin irritation : Skin irritation,  
 (Data on the product itself)

Sensitisation : Does not cause skin sensitisation., guinea pig  
 (Data on the product itself)

Does not cause respiratory sensitisation.,

Reproductive toxicity : No toxicity to reproduction

Pentapotassium bis(peroxymonosulphate) bis(sulphate)  
 Eye irritation : Corrosive, rabbit

Mutagenicity : Animal testing did not show any mutagenic effects.  
 Did not cause genetic damage in cultured bacterial cells.  
 Tests on mammalian cell cultures showed mutagenic effects.  
 Evidence suggests this substance does not cause genetic damage in animals.

Teratogenicity : Animal testing showed no developmental toxicity.

Sulphamidic acid  
 Eye irritation : Eye irritation, rabbit

Repeated dose toxicity : Oral  
 rat



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No toxicologically significant effects were found.

Mutagenicity : Animal testing did not show any mutagenic effects.  
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Sodium chloride

Eye irritation : No eye irritation, rabbit  
slight irritation

Repeated dose toxicity : Oral  
rat

Due to its physical properties, there is no potential for adverse effects.

### SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Virkon® Greenhouse

96 h LC50 : Salmo salar (Atlantic salmon) 24.6 mg/l  
(Data on the product itself)

72 h EC50 : Algae 20 mg/l  
(Data on the product itself)

NOEC : Algae 6.25 mg/l  
(Data on the product itself)

48 h EC50 : Daphnia magna (Water flea) 6.5 mg/l  
(Data on the product itself)

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

37 d : NOEC Cyprinodon variegatus (sheepshead minnow) 0.222 mg/l

28 d : NOEC Americamysis bahia (mysid shrimp) 0.267 mg/l

Sodium chloride

7 d : NOEC Pimephales promelas (fathead minnow) 4,000 mg/l

33 d : NOEC Pimephales promelas (fathead minnow) 252 mg/l



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21 d : NOEC Daphnia magna (Water flea) 314 mg/l

7 d : NOEC Ceriodaphnia Dubia (water flea) 354 mg/l

Environmental Fate  
Virkon® Greenhouse  
Biodegradability

: Expected to be biodegradable

Sodium chloride

Bioaccumulation

: Bioaccumulation is unlikely.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : Dispose of as special waste in compliance with local and national regulations.  
The product should not be allowed to enter drains, water courses or the soil.

Environmental Hazards : If recycling is not practicable, dispose of in compliance with local regulations.

**SECTION 14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. REGULATORY INFORMATION**

PCP Registration # : 24210

Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.



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**SECTION 16. OTHER INFORMATION**

MSDS preparation date : 05/09/2014

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Significant change from previous version is denoted with a double bar.