



**Virkon® Tablet**

Version 2.1

Revision Date 02/06/2014

Ref. 130000033588

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® Tablet  
 MSDS Number : 130000033588  
 Product Use : Disinfectant  
 Manufacturer : DuPont  
 1007 Market Street  
 Wilmington, DE 19898  
 Product Information : 1-302-774-1000

**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**

Component	CAS-No.	Concentration
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Pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8	40 - 55 %
Malic acid	6915-15-7	20 - 25 %
Sulphamidic acid	5329-14-6	4 - 6 %
Sodium C10-13-alkylbenzenesulfonate	68411-30-3	3 - 5 %
Dipotassium peroxodisulphate	7727-21-1	<3 %
Tetra[carbonato(2-)]dihydroxypentamagnesium	7760-50-1	<3 %

**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.
- 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. 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.
- Notes to physician : Treat symptomatically.

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**SECTION 5. FIREFIGHTING MEASURES**

## Flammable Properties

Flash point : does not flash

Thermal decomposition : &gt; 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)

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 (CO<sub>2</sub>)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 spray mist. Provide adequate ventilation. Avoid contact with skin and eyes. For personal protection see section 8.

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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.

**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 : tablet  
Color : pink  
Odor : none  
pH : 2.5 - 3.0  
Water solubility : 65 g/l at 20 °C (68 °F)



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### SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable under recommended storage conditions.
Conditions to avoid	: Exposure to moisture.
Incompatibility	: Strong bases Combustible material
Hazardous decomposition products	: Sulphur dioxide, Chlorine , Hypochlorite

### SECTION 11. TOXICOLOGICAL INFORMATION

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Inhalation 4 h LC50	: 3.7 mg/l , rat
Dermal LD50	: 2,200 mg/kg , rat
Oral LD50	: 4,123 mg/kg , rat
Sensitisation	: Does not cause skin sensitisation., guinea pig Does not cause respiratory sensitisation.,

#### Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Skin irritation	: Causes burns., rabbit
Eye irritation	: Corrosive, rabbit
Mutagenicity	: Animal testing did not show any mutagenic effects.

#### Malic acid

Skin irritation	: Skin irritation, rabbit
Eye irritation	: Severe eye irritation, rabbit
Repeated dose toxicity	: Oral - feed rat  No toxicologically significant effects were found.

#### Sulphamidic acid

Skin irritation	: animals (unspecified species)
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Corrosive

Eye irritation : rabbit  
Corrosive

Sodium C10-13-alkylbenzenesulfonate

Skin irritation : rabbit  
irritant

Eye irritation : Corrosive

Repeated dose toxicity : Oral  
Reduced body weight gain, altered blood chemistry, Liver effects,  
Kidney effects

Dipotassium peroxodisulphate

Skin irritation : Skin irritation, rabbit

Eye irritation : Eye irritation, rabbit  
Information given is based on data obtained from similar substances.

Repeated dose toxicity : Oral  
rat

No toxicologically significant effects were found.

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Mutagenicity : Animal testing did not show any mutagenic effects.

Reproductive toxicity : No toxicity to reproduction

Teratogenicity : No toxicity to reproduction

Tetra[carbonato(2-)]dihydropentamagnesium

Eye irritation : Eye irritation, animals (unspecified species)

### SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

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96 h LC50	:	Cyprinodon variegatus (sheepshead minnow) 1.09 mg/l Directive 67/548/EEC, Annex V, C.1.
96 h ErC50	:	Selenastrum capricornutum (green algae) > 1 mg/l OECD Test Guideline 201
72 h NOEC	:	Selenastrum capricornutum (green algae) 0.5 mg/l
48 h EC50	:	Daphnia magna (Water flea) 3.5 mg/l OECD Test Guideline 202
37 d	:	NOEC Cyprinodon variegatus (sheepshead minnow) 0.222 mg/l
28 d	:	NOEC Americamysis bahia (mysid shrimp) 0.267 mg/l

## Malic acid

48 h EC50	:	Daphnia magna (Water flea) 240 mg/l
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## Sulphamidic acid

96 h LC50	:	Pimephales promelas (fathead minnow) 14.2 mg/l
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Sodium C10-13-alkylbenzenesulfonate  
LC50

LC50	:	Pimephales promelas (fathead minnow) 3.5 mg/l
96 h LC50	:	Lepomis macrochirus (Bluegill sunfish) 1.67 mg/l
96 h	:	Pseudokirchneriella subcapitata 29 mg/l
EC50	:	Daphnia magna (Water flea) 4.1 mg/l
48 h EC50	:	Daphnia magna (Water flea) 1.62 mg/l

## Dipotassium peroxodisulphate

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 76.3 mg/l US EPA Test Guideline OPP 72-1 Information given is based on data obtained from similar substances.
72 h EbC50	:	Pseudokirchneriella subcapitata (green algae) 83.7 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
72 h NOEC	:	Pseudokirchneriella subcapitata (green algae) 39.2 mg/l OECD Test Guideline 201 Information given is based on data obtained from similar substances.
48 h EC50	:	Daphnia magna (Water flea) 120 mg/l US EPA Test Guideline OPP



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72-2

Information given is based on data obtained from similar substances.

Environmental Fate

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Biodegradability : Expected to be biodegradable

Malic acid

Bioaccumulation : Accumulation in aquatic organisms 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**

D.I.N. Number : 02253917

Remarks : Regulated under the Food and Drugs Act – WHMIS exempt.

**SECTION 16. OTHER INFORMATION**





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Contact person : MSDS Coordinator, 1007 Market St. Wilmington, DE 19898, Phone: 302-999-6646(for MSDS information)/302-999-2778 (for technical information)

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