



Virkon™ S Tablet

Version 3.0

Revision Date 12/17/2015

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™ S Tablet
MSDS Number	:	130000033588
Product Use	:	Disinfectant
Manufacturer	:	THE CHEMOURS CANADA COMPANY PO BOX 118 STREETSVILLE ON L5M 2B7
Product Information	:	1-844-773-CHEM
Medical Emergency	:	1-866-595-1473 (24 hours)

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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
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 %

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.



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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.

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties
Flash point : does not flash

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)

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.



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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.
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



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None established.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: tablet
Color	: pink
Odor	: none
pH	: 2.5 - 3.0
	: no data available
Boiling point/boiling range	: Not applicable
Sublimation point	: no data available
Water solubility	: 65 g/l at 20 °C (68 °F)
Partition coefficient: n-octanol/water	: no data available
Viscosity	: no data available
Viscosity, kinematic	: no data available
Evaporation rate	: no data available

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

Virkon™ S Tablet	
Inhalation 4 h LC50	: 3.7 mg/l , Rat
Dermal LD50	: 2,200 mg/kg , Rat
Oral LD50	: 4,123 mg/kg , Rat



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Sensitisation : Does not cause skin sensitisation., Guinea pig
 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.
 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.

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.
 Carcinogenicity : Not classifiable as a human carcinogen.
 Due to its physical properties, there is no potential for adverse effects.
 Mutagenicity : Animal testing did not show any mutagenic effects.
 Evidence suggests this substance does not cause genetic damage in animals.
 Reproductive toxicity : No toxicity to reproduction
 Due to its physical properties, there is no potential for adverse effects.
 Teratogenicity : Animal testing showed no developmental toxicity.



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Sulphamidic acid

Skin irritation : Severe skin irritation, Rabbit

Eye irritation : Eye irritation, Rabbit

Repeated dose toxicity : Oral
Rat

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 C10-13-alkylbenzenesulfonate

Skin irritation : Severe skin irritation, Rabbit

Eye irritation : Irreversible effects on the eye, Rabbit

Repeated dose toxicity : Ingestion
Rat
28 d

No toxicologically significant effects were found.

Mutagenicity : Animal testing did not show any mutagenic effects.
Did not cause genetic damage in cultured bacterial cells.
Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.
Information given is based on data obtained from similar substances.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Dipotassium peroxodisulphate

Skin irritation : Skin irritation, Rabbit

Eye irritation : Eye irritation, Rabbit



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Information given is based on data obtained from similar substances.

- Repeated dose toxicity : Oral
Rat

No toxicologically significant effects were found.
- Carcinogenicity : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.
Information given is based on data obtained from similar substances.
- Mutagenicity : Animal testing did not show any mutagenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Information given is based on data obtained from similar substances.
- Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.
Information given is based on data obtained from similar substances.
- Teratogenicity : Animal testing showed no developmental toxicity.
Information given is based on data obtained from similar substances.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

- 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

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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
Sulphamidic acid		
96 h LC50	:	Pimephales promelas (fathead minnow) 70.3 mg/l OECD Test Guideline 203 Information given is based on data obtained from similar substances.
72 h ErC50	:	Desmodesmus subspicatus (green algae) 48 mg/l OECD Test Guideline 201
72 h NOEC	:	Desmodesmus subspicatus (green algae) 18 mg/l OECD Test Guideline 201
48 h EC50	:	Daphnia magna (Water flea) 71.6 mg/l OECD Test Guideline 202
Sodium C10-13-alkylbenzenesulfonate		
96 h LC50	:	Lepomis macrochirus (Bluegill sunfish) 1.67 mg/l see user defined free text
72 h ErC50	:	Desmodesmus subspicatus (green algae) 127.9 mg/l
15 d NOEC	:	Algae 3.1 mg/l
48 h EC50	:	Daphnia magna (Water flea) 2.9 mg/l OECD Test Guideline 202
28 d	:	NOEC Lepomis macrochirus (Bluegill sunfish) 1 mg/l OECD Test Guideline 204
21 d	:	NOEC Daphnia magna (Water flea) 1.18 mg/l OECD Test Guideline 211
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.



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- 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 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.



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SECTION 15. REGULATORY INFORMATION

DSL : All components of this product are on the Canadian DSL

D.I.N. Number : 02253917

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

SECTION 16. OTHER INFORMATION

MSDS preparation date : 12/17/2015

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