



**USEFUL INFORMATION ON DISINFECTANTS REGISTERED IN CANADA
AND RECOGNIZED EFFECTIVE AGAINST PORCINE EPIDEMIC DIARRHEA,
PORCINE DELTACORONAVIRUS AND SENECAVIRUS A VIRUSES IN PORK**

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TABLE OF CONTENTS

GLOSSARY	5
ACRONYMS	6
Introduction	7
Disinfectant Recommendations	7
Tableau 1. Characteristics of disinfectants	9
Section I. Reference tables	10
Table 2. Contact information	11
Table 3. Summary of the effectiveness of disinfectants registered in Canada	13
Table 4. Summary of the effectiveness of biocidal chemical compounds	14
Table 5. Summary of disinfectants according to their types of use, their compatibility with propylene glycol and their corrosivity	15
Important note about the use of propylene glycol with a disinfectant	17
Section II. Commercial product sheets	18
Example: Commercial product sheet	19
Commercial name: 265 Century Q	20
Commercial name: Benefect Botanical Decon 30 Disinfectant	21
Commercial name: Bio Termination	22
Commercial name: BioSentry 904 Disinfectant	23
Commercial name: BioSentry BioPhene Disinfectant	24
Commercial name: Bioxy Enviro	25
Commercial name: BruTab 6S	27
Commercial name: Clorox Broad Spectrum Quaternary Disinfectant Cleaner	29
Commercial name: D-125 Microgen	30
Commercial name: DIFFIX+ Disinfectant Tablets	31
Commercial name: Germisyl	33
Commercial name: Gluquat 2	34
Commercial name: Hyperox	36
Commercial name: Klorkleen 2	38
Commercial name: MS Megades Kiemkill	40

Commercial name: Neogen Viroxide Super	41
Commercial name: Penquat FD.....	42
Commercial name: PF 300	44
Commercial name: Prevail Animal Premise Disinfectant Cleaner.....	46
Commercial name: Spectragen	48
Commercial name: Sterilex Ultra-Kleen CIP Solution 1 and activator.....	50
Commercial name: Synergize.....	51
Commercial name: Thymox AG.....	53
Commercial name: Virkon	55
Commercial name: Virocid.....	57
Section III. Biocidal chemical compounds.....	59
Name of chemical compound: Acetic acid	60
Name of chemical compound: Citric acid.....	61
Name of chemical compound: Anhydrous sodium carbonate.....	62
Name of chemical compound: Formaldehyde.....	63
Name of chemical compound: Sodium hydroxide.....	64
Name of chemical compound: Sodium hypochlorite.....	65

GLOSSARY

Claim: Product label or advertising material that specifies its effectiveness in relation to the regulations of the reference country.

Approved: Official registration of the product or official website of the country's government specifically indicating its effectiveness.

Biocide: Chemical substance or microorganism intended to destroy, deter, render harmless or exert a controlling effect on any pest.

Corrosive: Corrosive materials are those that chemically attack and destroy exposed body tissue. They can also damage or even destroy metals.

Disinfectant: Substance used to destroy pathogenic microorganisms in contaminated environments, materials or equipment to prevent infection.

Emergency exemption: Authorization for exemptions for unregistered uses to address emergency situations.

Registered: Effectiveness recognized by the analysis of efficacy of compound ingredients.

Microorganism substitution: a harmless microorganism that has resistant properties similar to a pathogenic organism and which can be used a substitute for testing.

Registered product: Product with a different name, but from the same manufacturer with the same formula.

Tested: Final report or summary of study with results to prove the effectiveness provided by the manufacturer or distributor.

Virucide: Substance capable of destroying viruses.

ACRONYMS

CFIA: Canadian Food Inspection Agency

SDCV: Porcine deltacoronavirus

DEFRA: Department for Environment, Food & Rural Affairs, United Kingdom

PED: Porcine epidemic diarrhea

DIN: Drug identification number

EPA: Environmental Protection Agency, United States

EQSP: Équipe québécoise de santé porcine

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act, United States

TGE: Transmissible gastroenteritis

INRV: Institute for Veterinary Research, Belgium

NCFAD: National Centre for Foreign Animal Disease, Winnipeg, Canada

OIE: World Organisation for Animal Health

SVA: Senecavirus A

EU: European Union

UK: United Kingdom

US: United States

Introduction

This document is intended for those in the swine industry as a tool to find active disinfectants that can be used against the causative agents of certain diseases caused by Porcine Epidemic Diarrhea Virus (PED), Porcine Deltacoronavirus (PCVP) and Senecavirus A (SVA).

It also makes it possible to identify the drug identification number (DIN), to verify some of its general indications for use and to list the contact persons.

The list may not be exhaustive of all disinfectants registered by Health Canada that could be used against a specific causative agent. It only includes products which, according to various studies carried out by companies, private laboratories or others, have been recognized as effective by a government or scientific institution.

Where possible, the Canadian Food Inspection Agency (CFIA) recommends using Health Canada-registered products that have a DIN, but when Health Canada-approved disinfectants are not available or the use of a product is contraindicated, products containing chemical compounds whose effectiveness has been demonstrated and which are identical can be considered. Furthermore, the inclusion of a product in this document does not necessarily imply its approval by Health Canada or the CFIA.

Information was obtained from the CFIA, Health Canada, manufacturers and distributors of commercial biocidal products and chemical compounds during the period June 8 to August 30, 2022.

Although the reader may use this document to help identify potential products, it is the reader's responsibility to ensure that the product label contains directions for its use. It is recommended to contact the supplier regarding the manufacturer's recommendations in this regard.

When used outdoors (e.g. in a compression sprayer), any disinfectant solution must be changed regularly to ensure its effectiveness. At all times, the solution should be protected from sunlight and extreme temperatures.

Biosecurity is defined as the implementation of a set of measures that reduce the risk of infection, among other things, through cleaning and disinfection. The complete cleaning and disinfection process is complex; it involves judiciously associating molecules with a succession of precise steps and mechanical actions while considering the environmental parameters at the time of the intervention. It basically includes five stages: dry cleaning, wet cleaning, drying, disinfection and final drying. The design and materials used to construct buildings influence the methods used. Equipment such as feeders, drinkers and the water system require special attention.

Disinfectant Recommendations

Coronaviruses are large viruses that belong to the Coronaviridae family, enveloped viruses and quite sensitive to a wide range of disinfectants. Their prevalence in nature is very high and they are responsible for numerous respiratory, digestive and nervous infections in mammals and birds. In pigs, they are responsible for the most important gastrointestinal infections such as transmissible gastroenteritis (TGE), PED and SDCV. Generally, disinfectants effective against PED and SDCV virus are those containing phenol, peroxygen, chlorine, quaternary ammonium and glutaraldehyde.

Senecavirus A is a small, non-enveloped virus of the Picornaviridae family that also contains foot-and-mouth disease virus (FMDV) and swine vesicular disease virus (SVD). The effectiveness of most disinfectants against VAS is not clearly known. Since vesicular diseases are clinically indistinguishable from each other, disinfection protocols for VFA should be followed even if VAS is suspected². This includes the use of: sodium hydroxide, sodium carbonate, 0.2% citric acid, aldehydes and oxidizing disinfectants, including sodium hypochlorite.

This document provides a list of disinfectants available in Canada and these could be used when disinfecting vehicles, buildings or equipment to inactivate target disease viruses. In some cases, this effectiveness has been estimated based on that established against similar viruses (other Coronaviruses or Picornaviruses) and, in other cases, it has been tested by an independent laboratory and the report or its results have been communicated to us.

The most frequently used types of disinfectants include aldehydes, halogens, Oxidizing agents, phenols and quaternary ammonium compounds. The characteristics of the pathogen, including enveloped or non-enveloped viruses, and their specific characteristics of disinfectants, will influence the choice of product (see Table 1).

This document is divided into three sections. The first “**Section I. Reference Tables**” contains four summary tables. Table 2, entitled “**Summary of contact details of resource persons**”, provides all the information you need to contact the contact person for each disinfectant. Tables 3 and 4 help define the effectiveness of disinfectants, registered in Canada, and chemical compounds against specific reportable diseases. Table 5, entitled “**Summary of disinfectants according to their types of use, their compatibility with propylene glycol and their corrosivity**”, makes it possible to determine the products according to their indications for use, their compatibility to be mixed with propylene glycol during period below freezing point and corrosive effect during their use.

The second section of the document, entitled “**Section II. Commercial product sheets**”, contains information from manufacturers and distributors, the list of effectiveness against target diseases, technical information on the product such as its chemical composition, recommended dilution, contact time, rate of application and, if available, details on its use in combination with propylene glycol which would be useful when using disinfectants at temperatures below freezing (0°C).

Finally, in the third section “**Section III. Biocidal Chemical Compounds**”, these are compounds which, when disinfectants approved by Health Canada are not available or their use is contraindicated, can be considered for use because their effectiveness has been proven.

Tableau 1. Characteristics of disinfectants

Category	Alcohols	Aldehydes	Biguanides	Hypochlorite halogens	Iodine halogens	Oxidants agents	Phenols	QUATs*
Examples	<ul style="list-style-type: none"> Isopropyl alcohol Ethanol 	<ul style="list-style-type: none"> Formaldehyde Glutaraldehyde Gluquat 2* Spectragen* Synergize* Virocid* 	<ul style="list-style-type: none"> Chlorhexidine Hibitane LC-Kleen-P Virosan 	<ul style="list-style-type: none"> BruTab 6S CDIFF Diffix + Eau de Javel Zochlor 	<ul style="list-style-type: none"> Povidone (topical) FAM 30 	<ul style="list-style-type: none"> Bioxy Enviro* Prevail AHP Virkon 	<ul style="list-style-type: none"> BioPhene Spray (Biocide) BioSentry 	<ul style="list-style-type: none"> BTC 885 NEUTRAL Penquat FD
Action mechanism	<ul style="list-style-type: none"> Precipitates proteins Denatures lipids 	<ul style="list-style-type: none"> Denatures proteins Alkylation of nucleic acids 	<ul style="list-style-type: none"> Modifies the permeability of the membrane 	<ul style="list-style-type: none"> Denatures proteins 	<ul style="list-style-type: none"> Denatures proteins 	<ul style="list-style-type: none"> Denatures proteins and lipids 	<ul style="list-style-type: none"> Denatures proteins Modifies cell wall permeability 	<ul style="list-style-type: none"> Denatures proteins Binds cell membrane phospholipids
Advantages	<ul style="list-style-type: none"> Fast action Leaves no residue 	<ul style="list-style-type: none"> Broad spectrum 	<ul style="list-style-type: none"> Broad spectrum 	<ul style="list-style-type: none"> Broad spectrum Short contact time Not expensive 	<ul style="list-style-type: none"> Storage stable Relatively safe 	<ul style="list-style-type: none"> Broad spectrum 	<ul style="list-style-type: none"> Efficiency with organic matter Not corrosive Storage stable 	<ul style="list-style-type: none"> Storage stable Not irritant Effective at high temperatures and pH 9-10
Disadvantages	<ul style="list-style-type: none"> Rapid evaporation 	<ul style="list-style-type: none"> Cancerogenic Irritating to mucous membranes and tissues Use in well-ventilated areas 	<ul style="list-style-type: none"> limited pH action (5-7) Toxic to fish Environmental concern 	<ul style="list-style-type: none"> Inactivated by the sun Frequent application Corrodes metals Irritating 	<ul style="list-style-type: none"> Inactivated by QUATs Frequent application Corrodes metals Stains fabrics and surfaces 	<ul style="list-style-type: none"> Damage to certain metals 	<ul style="list-style-type: none"> May cause skin and eye irritation 	
Precautions	Inflammable	Cancerogenic		Never mix with acid			Toxic especially for cats and pigs	
VeTGEative bacteria	Effective	Effective	Effective	Effective	Effective	Effective	Effective	Effective Gram (+) Limited Gram (-)
Mycobacteria	Effective	Effective	Variable	Effective	Limited	Effective	Variable	Variable
Enveloped virus	Effective	Effective	Limited	Effective	Effective	Effective	Effective	Variable
Non enveloped virus	Variable	Effective	Limited	Effective	Limited	Effective	Variable	Ineffective
Spores	Ineffective	Effective	Ineffective	Variable	Limited	Variable	Ineffective	Ineffective
Fungus	Effective	Effective	Limited	Effective	Effective	Variable	Variable	Variable
With organic material	Reduced	Reduced	?	Quickly reduced	Quickly reduced	Variable	Effective	Inactivated
Hard water	?	Reduced	?	Effective	?	?	Effective	Inactivated

Adapted from: CFSPH, 2008. Characteristics of Selected Disinfectants, Iowa State University, www.cfsph.iastate.edu.

* Quaternary ammonium compounds (QUATs).

Section I. Reference tables

Table 2. Contact information

Distributor	Commercial name	Address	Contact	Telephone	Email
Atomes Bio	Bioxy Enviro	3485. rue Ashby Saint-Laurent, Quebec H4R 2K3 CANADA	Alain Brunet	Tel: 514-745-2597 Cell.: 514-830-9447	alainbrunet@bioxyafd.com
Ceva Santé Animale	Germisyl	1040 Fountain St. N. Cambridge, Ontario N3E 5M1 CANADA	Dr. Anne Lemay	Tel.: 1-800-510-8864 Cell.: 613-266-1847	anne.lemay@ceva.com
DCL Nutrition et Santé Animale	Virocid	6340. rue Choquette Saint-Hyacinthe, Quebec J2S 8L1 CANADA	Miguel Delisle	Tel.: 450-773-0770 Tel.: 450-773-9491 Cell.: 514-245-5545	mdelisle@dcl.ag
DuBois Chemicals Inc.	PF 300	6500 Rte Transcanadienne, Saint-Laurent, Quebec H4T 1X4 CANADA	Mathew Bonarek	Tel.: 1-800-438-2647 Cell.: 514-805-5121	Mathew.Bonarek@duboischemicals.com
Ecolab	Sterilex Ultra-Kleen CIP Solution 1 and activator	5105 Tomken Road Mississauga, Ontario L4W 2X5 CANADA	Jason Koerth	Cell.: 269-207-3773	Jason.koerth@ecolab.com
ICP Group	Benefect Decon 30 Disinfectant	555 Bay Street North Hamilton, Ontario L8L 1H1 CANADA	Mark Robertson	Cell.: 647-290-7878	mrobertson@icpgroup.com
Kersia Canada	BruTab 6S Klorkleen 2	390. boul. Saint-Laurent Est. Louiseville, Quebec J5V 1H8 CANADA	Mark Hodgson	Tel.: 514-630-3309. ext. 263 Cell.: 732-492-8665	mark.hodgson@kersia-group.com
Maxill	DIFFIX+ Disinfectant Tablets	80 Elm Street, St. Thomas, Ontario N5R 6C8 CANADA	Tanya Kobyłka	Tel.: 519-631-3388 Dir.: 1-800-268-8633. ext. 244	tanyak@maxill.com

Distributor	Commercial name	Address	Contact	Telephone	Email
Laboratoire M2	Thymox AG	4005-A, rue de la Garlock Sherbrooke, Quebec J1L 1W9 CANADA	Émilie St-Pierre	Tel.: 1-866-898-0697. ext. 120 Cell.: 819-620-4901	estpierre@thymox.com
Microgen Inc.	D-125 Microgen	102-33 Clinton Rd West Caldwell NEW JERSEY United States 07006	Scott DeLeo	Tel.: 978-623-9980. ext. 2238 Cell.: 781-258-1898	sdeleo@icpgroup.com
MS Schippers Canada	MS Megades Kiemkill	120-27211 Highway 12 Lacombe County, Alberta T4L 0E3 CANADA	Claude Morin	Tel.: 1-866-995-7771 Cell.: 819-820-4436	c.morin@schippers.ca
EthoGuard	Prevail Animal Premise – Wipes Disinfectant Cleaner	40193 Blyth Rd, Blyth, Ontario NOM 1H0	Mark Beaven	Tel.: 1-888-908-3957 Cell.: 519-955-7725	info@ethoguard.com
Precision Chemical Technologies	Bio Termination	220 Saulteaux Cres Winnipeg, Manitoba R3J 3W3 CANADA	Tim Kennedy	Tel.: 204-477-4747 Cell.: 431-335-6496	tim.kennedy@prechem.ca
Riches Associates	256 Century Q	133 Wendler Terrace, Ottawa, Ontario K1E 3T5 CANADA	Michel Leger	Tel.: 613-720-4314 Cell.: 514-755-4314	mleger@richesassociates.com
S.E.C. Repro inc.	Spectragen	86. rue Roy Ange-Gardien-de-Rouville, Quebec JOE 1EO CANADA	Louis Bonneville	Tel.: 450-293-0157 Dir.: 450-293-0156 Cell.: 450-776-0596	louis@secrepro.com
Syrvet Canada	BioSentry BioPhene Disinfectan Neogen Viroxide Super Synergize	207A, des Alouettes Saint-Alphonse de Granby, Quebec JOE 2A0 CANADA	Réal Sauvage	Tel.: 1-888-779-7838 Cell.: 450-361-1504	realsauvage@syrvetcanada.ca

Distributor	Commercial name	Address	Contact	Telephone	Email
Vétoquinol N.-A. inc.	BioSentry 904 Disinfectant Hyperox Virkon	2000. chemin Georges Lavaltrie, Quebec J5T 3S5 CANADA	Isabelle Dorion	Tel.: 1-800-565-0497 Cell.: 418-802-8720	isabelle.dorion@vetoquinol.com
West Penetone inc.	Gluquat 2 Penquat FD	10900. rue Secant Montreal, Quebec H1J 1S5 CANADA	Laurie Bélanger	Tel.: 1-800-361-8927 Cell.: 438-864-8265	lbelanger@westpenetone.com
Wood Wyant Sani Marc	Clorox Broad Spectrum Quaternary Disinfectant Cleaner	9585. Ignace Brossard, Quebec J4Y 2P3 CANADA	Nicolas Vallière	Tel.: 450-659-7777 Cell.: 438-340-0374 Dir.: 450-680-9700. ext. 2766	nicolas.valliere@sanimarc.com

Table 3. Summary of the effectiveness of disinfectants registered in Canada

Commercial name	PED	SDCV	SVA	Others
256 Century Q	☑	☑		
Benefect Decon 30 Disinfectant	☑	☑	☑	
Bio Termination	☑	☑		
Biosentry 904 Disinfectant	☑	☑		
Biosentry Biophene Disinfectant	✓	☑		
Bioxy Enviro	✓	☑		
BruTab 6S	✓	☑		Against the TGE virus
Clorox Broad Spectrum Quaternary Disinfectant Cleaner	☑	☑		Against the TGE virus
D-125 Microgen	☑	☑		Against the TGE virus
Diffix+ Disinfectant Tablets	✓	☑		Against the TGE virus
Germisyl	☑	☑	☑	

Commercial name	PED	SDCV	SVA	Others
Gluquat 2	✓	☑		
Hyperox			☑	
Klorkleen 2	✓	☑		Against the TGE virus
MS Megades Kiemkill			☑	
Neogen Viroxide Super	✓	☑	☑	Against the TGE virus
Penquat FD	☑	☑		Against the TGE virus
PF 300	✓	☑		
Prevail Animal Premise	✓	☑	✓	Against the TGE virus
Spectragen	✓	☑	☑	
Sterilex Ultra-Kleen CIP Solution 1 and activator	✓	☑		
Synergize	✓	☑	✓	
Thymox AG	✓	☑		
Virkon	✓	☑	✓	Against the TGE virus
Virocid	✓	☑	☑	

✓ : Effective.

☑: Tested against a substitute organism.

Table 4. Summary of the effectiveness of biocidal chemical compounds

Compounds	PED	SDCV	SVA	Others
Acetic acid			☑	
Citric acid			☑	
Anhydrous sodium carbonate	✓	☑	☑	
Formaldehyde	✓	☑		
Sodium hydroxide	✓	☑	☑	
Sodium hypochlorite			✓	

✓ : Effective.

☑: Tested against a substitute organism.

Table 5. Summary of disinfectants according to their types of use, their compatibility with propylene glycol and their corrosivity

Disinfectant product	Agriculture	Equipment	Surfaces	Wipes	Compatibility with propylene glycol	Corrosiveness
256 Century Q	1	2	3			▼
Benefect Decon 30 Disinfectant	1		3		×	
Bio Termination	1	2	3			▼
Biosentry 904 Disinfectant	1		3			▼
Biosentry Biophene Disinfectant	1	2	3			▼
Bioxy Enviro	1	2	3		5	
BruTab 6S		2	3		×	▼
Clorox Broad Spectrum Quaternary Disinfectant Cleaner	1	2	3			
D-125 Microgen	1	2	3		×	▼
Diffix+ Disinfectant Tablets	1	2	3		×	▼
Germisyl	1	2	3			▼
Gluquat 2	1	2	3		5	
Hyperox	1	2	3			▼
Klorkleen 2	1	2	3		×	▼
MS Megades Kiemkill	1	2	3		×	▼
Neogen Viroxide Super	1	2	3			▼
Penquat FD	1	2	3		5	▼
PF 300	1	2	3		5	▼
Prevail Animal Premise	1	2	3	④	5	▼
Spectragen	1	2	3		5	▼
Sterilex Ultra-Kleen CIP Solution 1 and activator	1	2	3			▼
Synergize	1	2	3		5	▼
Thymox AG	1	2	3		5	
Virkon	1	2	3		5	
Virocid	1	2	3		5	▼

- ① Agriculture: Approved use in agriculture for disinfection of animal production sites
- ② Equipment: Approved use for disinfection of tools and vehicles
- ③ Surfaces: Approved use for disinfection of hard non-porous surfaces
- ④ Wipes: Available in wet wipes
- ⑤ Propylene glycol: Tested effective in dilution with propylene glycol according to its protocol
- ✗ Propylene glycol: Use with propylene glycol is not recommended
- ▼ Corrosivity: Possible corrosive effect when used

Important note about the use of propylene glycol with a disinfectant

1. When mixing use the following procedure:
 - a. **Liquid disinfectants:** Always dilute propylene glycol with water before adding the disinfectant at the rate required, unless otherwise indicated by the company.
 - b. **Powder disinfectants:** Always dilute the disinfectant in water before adding propylene glycol to ensure a good dilution of the product.
2. For certain products, the manufacturer does not recommend the use of a propylene glycol concentrations above a certain level. In this case, the information is provided to you in a data sheet. An elevated concentration of propylene glycol could destabilize the prepared solution.
3. Propylene glycol increases the viscosity of the solution, and some pump types may have difficulty pumping more viscous solutions.
4. Propylene glycol does not necessarily prevent freezing of disinfectant solutions at very low temperatures since the concentration of propylene glycol required is very high or if the solutions are left at sub-freezing temperatures for long periods. The following additional measures may be used to prevent the freezing of disinfectant solutions:
 - a. Store the sprayers in heated buildings.
 - b. Use sprayers that can heat the disinfectant solution.
 - c. Use a portable heater to warm the sprayer.
 - d. Maintain the continuous circulation of the disinfectant solution in the pump.

For the solutions described above, use pure U.S.P. or food-grade propylene glycol. Propylene glycol improves fogging by breaking the solution drops into smaller particles, allowing them to better distribute and cover the sprayed surface. It is water soluble and safe for human use. It is also biodegradable. In the United States, propylene glycol is on the GRAS (Generally Recognized as Safe) product list as an emulsifier and common food additive.

Note: Never use automotive antifreeze or ethynyl glycol, which are known to be toxic to humans and animals!

Section II. Commercial product sheets

Example: Commercial product sheet

1 **Commercial name:** 123 Plus

2 **DIN:** 00000000

3 **Manufacturer:** Big Clean
555 Road
Lake, Qc, J2S 4Q2 Canada
Website: <https://Bigclean.com/>

Distributor: Big Clean
555 Road
Lake, Qc, J2S 4Q2 Canada
Website: <https://Bigclean.com/>

Contact person: Contact person

4 **Telephone:** 450-679-0530
Direct:

Cell.: 450-679-0530
Email: info@eqsp.ca

Effective against the causative agent of:

	5	6
<i>PED</i>	✓	Effective against virus , concentration, action time
<i>SDCV</i>	☑	Effective against virus , concentration, action time
<i>SVA</i>	☐	
<i>Others</i>	☐	

Reference: ¹ References

6 *Description of efficacy details and recommendations for use and reference*

5 ✓: Effective
☑: Tested against a surrogate organism

7 **Class:** Disinfectant classification

8 **Type of product:** Presentation

Active ingredient(s)	Concentration (%)
Benzalkonium	0.00
Ammonium chloride	0.00

9 **Application rate:** If available

10 **Propylene glycol dilution protocol:** If available

Commercial name: 265 Century Q

DIN: 02436310



Manufacturer: Multi-Clean
600 Cardigan Road
Shoreview, Minnesota, 55126 ÉTATS UNIS
Website: <https://multi-clean.com/>

Distributor: Riches Associates
133 Wendler Terrace
Ottawa, Ontario K1E 3T5 CANADA
Website: <https://www.richesassociates.com/>

Contact person: Michel Leger

Telephone: 613-720-4314

Direct:

Cell.: 514-755-4314

Email: mleger@richesassociates.com

Effective against the causative agent of:

Type of study, dilution and contact time:

PED	<input checked="" type="checkbox"/>	Effective against human coronavirus and SARS-CoV2. 1:256 (4 ml/liter), 10 minutes ¹
SDCV	<input checked="" type="checkbox"/>	Effective against human coronavirus and SARS-CoV2. 1:256 (4 ml/liter), 10 minutes ¹ .
SVA	<input type="checkbox"/>	
Others	<input type="checkbox"/>	

Reference:

¹ Canada Health: <https://www.canada.ca/en/health-canada/services/drugs-health-products/disinfectants/covid-19/list.html>

Class: Quaternary ammonium

Type of product: Liquid

Active ingredient(s)	Concentration (%)
Benzalkonium chloride	6.76
Didecyl-dimethyl ammonium chloride	10.14

Application rate: Not available

Propylene glycol dilution protocol: Not available

Commercial name: Benefect Botanical Decon 30 Disinfectant

DIN: 02415046



Manufacturer: Sensible Life Products Ltd
555 Bay Street
North Hamilton, Ontario L8L 1H1
CANADA
Website: <https://www.icpgroup.com/>

Distributor: ICP Group
555 Bay Street,
North Hamilton, Ontario L8L 1H1
CANADA
Website: <https://benefect.com/ca/>

Contact person: Mark Robertson**Telephone:** 1-800-909-2813**Direct:****Cell.:** 647 290-7878**Email:** mrobertson@icpgroup.com**Effective against the causative agent of:****Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Proven use against the COVID-19 virus, without dilution, 10 minutes ¹
SDCV	<input checked="" type="checkbox"/>	Proven use against the COVID-19 virus, without dilution, 10 minutes ¹
SVA	<input checked="" type="checkbox"/>	Approved in the US EPA* for foot and mouth disease virus, undiluted, 15 minutes ²
Others	<input type="checkbox"/>	

Reference:¹Health Canada: <https://www.canada.ca/en/health-canada/services/drugs-health-products/disinfectants/covid-19/list.html>²FIFRA section 18 Emergency Exemption Label (Rev. 10/27/21). *Produit homologue: Benefect® Botanical Daily Cleaner Disinfectant Spray, EPA registration number: 84683-3.**Class:** Phenol – detergent**Type of product:** Liquid

Active ingredient(s)	Concentration (%)
Thymol	0.05

Application rate: 4 litres/100 m² (1 000 pi²)**Propylene glycol dilution protocol:** Not recommended

Commercial name: Bio Termination

DIN: 02477459



Manufacturer: Precision Chemical Technologies
220 Saulteaux Cres
Winnipeg (Manitoba) R3J 3W3 CANADA
Website: <https://prechemtech.com/>

Distributor: Precision Chemical Technologies
220 Saulteaux Cres
Winnipeg (Manitoba) R3J 3W3 CANADA
Website: <https://prechemtech.com/>

Contact person: Tim Kennedy
Telephone: 204-477-4747
Cell.: 431 335-6496

Fax:
Email: tim.kennedy@prechem.ca

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Proven use against the COVID-19 virus, 0.5% (5 ml/liter), 10 minutes ¹
SDCV	<input checked="" type="checkbox"/>	Proven use against the COVID-19 virus, 0.5% (5 ml/liter), 10 minutes ¹
SVA	<input type="checkbox"/>	
Others	<input type="checkbox"/>	

Reference: ¹Health Canada: <https://www.canada.ca/en/health-canada/services/drugs-health-products/disinfectants/covid-19/list.html> Produit homologue: BTC 2125M 10%, EPA registration number: 1839-86.

Class: Quaternary ammonium

Type of product: Liquid

Active ingredient(s)	Concentration (%)
Alkyl dimethyl ethyl benzyl ammonium chloride	5.00
Benzalkonium chloride	5.00

Application rate: Not available

Propylene glycol dilution protocol: Not available

Commercial name: BioSentry 904 Disinfectant

DIN: 02319756



Manufacturer: Neogen Corporation
 1-4 Sandfield Industrial Park, Dodgson Street
 Rochdale Lancashire OL16 5SJ ROYAUME-UNI
Website: <https://www.neogen.com/>

Distributor: Vétquinol N.-A. inc.
 2000. chemin Georges
 Lavaltrie, Quebec J5T 3S5 CANADA
Website: <https://www.vetoquinol.ca/>

Contact person: Isabelle Dorion
Telephone: 1-800-565-0497
Cell.: 418-802-8720

Fax: 450-515-1554
Email: isabelle.dorion@vetoquinol.com

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Canadian label claim against Coronavirus, 0.4% (4ml/liter), 10 minutes. Proven use against the COVID-19 virus ¹ .
SDCV	<input checked="" type="checkbox"/>	Canadian label claim against Coronavirus, 0.4% (4ml/liter), 10 minutes. Proven use against the COVID-19 virus ¹ .
SVA	<input type="checkbox"/>	
Others	<input type="checkbox"/>	

Reference: ¹Health Canada: <https://www.canada.ca/en/health-canada/services/drugs-health-products/disinfectants/covid-19/list.html>

Class: Quaternary ammonium

Type of product: Liquid

Active ingredient(s)	Concentration (%)
Benzalkonium chloride	6.2
Benzalkonium chloride	7.6
Didecyl-dimethyl ammonium chloride	9.2

Application rate: 1 liter per:186 m²

Propylene glycol dilution protocol: Not available

**Commercial name: BioSentry BioPhene Disinfectant**

DIN: 02478692

Manufacturer: Neogen Corporation
 1-4 Sandfield Industrial Park, Dodgson Street
 Rochdale Lancashire OL16 5SJ
 ROYAUME-UNI
Website: <https://www.neogen.com/>

Distributor: SyrVet Canada
 207A, des Alouettes
 Saint-Alphonse de Granby (Quebec) J0E 2A0
 CANADA
Website: <https://www.syrvetcanada.ca/>

Contact person: Réal Sauvage
Telephone: 1 888 779-7838
Cell.: 450-361-1504

Fax: 450-361-1505
Email: realsauvage@syrvetcanada.ca

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Approved in the US EPA ¹ : 1:256 (4 ml/ lite), 10 minutes
SDCV	<input checked="" type="checkbox"/>	Tested against PED virus - Coronavirus
SVA	<input type="checkbox"/>	
Others	<input type="checkbox"/>	

Reference: ¹ EPA registration number: 61282-53.

Class:Phénol**Type of product:** Liquid

Active ingredient(s)	Concentration (%)
Clorophene	9.97
O-phenylphenol	7.92
P-tert-pentylphénol	1.95

Application rate: 0.5 liters of solution per 1.000 ft² (or 100 m²)**Propylene glycol dilution protocol:** Not available

Commercial name: Bioxy Enviro

DIN: 02431734

Manufacturer: Bioxy AFD inc.
3485. rue Ashby
Saint-Laurent, Quebec H4R 2K3 CANADA
Website: www.bioxyafd.com

Distribut or: Atomes Bio
3485. rue Ashby
Saint-Laurent, Quebec H4R 2K3 CANADA
Website: www.atomesbio.com

Contact person: Alain Brunet
Telephone: 514-745-2597
Cell.: 514-830-9447

Fax: 514-745-5176
Email: alainbrunet@bioxyafd.com

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Study done at the University of Utah ¹ . 0.5% (5 gr/liter), 15 minutes
SDCV	<input checked="" type="checkbox"/>	Tested against PED virus - Coronavirus
SVA	<input type="checkbox"/>	
Others	<input type="checkbox"/>	

Reference:

¹Dagher D, Ungar K, Robison R, Dagher F (2017), The wide spectrum high biocidal potency of Bioxy formulation when dissolved in water at different concentrations. PLoS ONE 12(2): e0172224. doi:10.1371/journal.pone.0172224

Class: Oxidizing agent + Quaternary ammonium**Type of product:** Powder

Active ingredient(s)	Concentration (%)
Alkyl dimethyl ethyl benzyl ammonium chloride	0.10
Benzalkonium chloride	63.2

Application rate: 10 liters per 1 000 pi²**Propylene glycol dilution protocol:** 20.0 %

Protocole de dilution du Bioxy Enviro avec du propylène glycol pour usage hivernal

- **Étape 1:** Dissoudre le Bioxy Enviro dans 80% d'eau et le mélanger pendant au moins 15 minutes pour obtenir une production maximale de peracétique.
- **Étape 2:** Ajouter le propylène glycol à raison de 20.0 % et mélanger pendant 1 à 5 minutes.
- **Étape 3:** La solution est prête pour la désinfection. Utilisez cette solution dans un délai d'une heure, car les solvants ont tendance à décomposer les oxydes.

Source: Fadi Dagher, Ph.D. fadi@atomesbio.com, Bioxy AFD Inc., 3485. rue Ashby, Saint-Laurent (Quebec) H4R 2K3.

**Commercial name: BruTab 6S****DIN:** 02456788

Manufacturer: Brulin & Company inc.
 2920 Dr Andrew J Brown Avenue
 Indianapolis, IN
 46206 ÉTATS-UNIS
Website: <https://www.brulin.com/>

Distributor: Kersia Canada
 390. boul. Saint-Laurent Est
 Louiseville, Quebec J5V 1H8
 CANADA
Website: <https://www.kersia-group.com/>

Contact person: Mark Hodgson**Telephone:** 819-228-5564**Direct:** 514-630-3309. ext. 263**Cell.:** 732 492-8665**Email:** mark.hodgson@kersia-group.com**Effective against the causative agent of:****Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Approved in the United States*, 2153 ppm, 10 minutes
SDCV	<input checked="" type="checkbox"/>	Approved in the United States* against SARS CoV-2. 2153 ppm, 4 minutes
SVA	<input type="checkbox"/>	
Others	<input checked="" type="checkbox"/>	Approved in the United States* against TGE virus, 1076 ppm, 30 minutes

Reference:

*Homologue product: Klorsept EPA registration number: 71847-6-106.

Class: Hypochlorite halogens**Type of product:** Effervescent tablets

Active ingredient(s)	Concentration (%)
Sodium dichloroisocyanurate	50.00 p/p

Application rate: Not available**Propylene glycol dilution protocol:** Not recommended

BruTab 6S Tablet Dilution and Concentration Table

Tablets 3.3 g Disinfectant dilution (ppm)	Quantity of tablets	Liters of water
500	1	2
1 000	1	1
4 000	4	1
5 000	5	1

Tablettes 13.1 g Dilution du désinfectant (ppm)	Quantity of tablets	Liters of water
1 000	1	4
2 000	1	2
4 000	2	2
5 000	5	4


Commercial name: Clorox Broad Spectrum Quaternary Disinfectant Cleaner
DIN: 02514370

Manufacturer: The Clorox Company Canada
 150 Biscayne Crescent
 Brampton, Ontario L6W 4V3
 CANADA

Website: <https://www.cloroxpro.ca/>
Distributor: Wood Wyant
 9585. Ignace
 Brossard, Quebec J4Y 2P3
 CANADA

Website: <https://www.sanimarc.com/>
Contact person: Nicolas Vallière

Telephone: 450-659-7777

Direct: 450-680-9700. ext. 2766

Cell.: 438 340-0374

Email: nicolas.valliere@sanimarc.com
Effective against the causative agent of:
Type of study, dilution and contact time:

PED	<input checked="" type="checkbox"/>	Approved in the United States against SARS-CoV-2 and Human Coronavirus* without dilution, 2 minutes
SDCV	<input checked="" type="checkbox"/>	Approved in the United States against SARS-CoV-2 and Human Coronavirus* without dilution, 2 minutes
SVA	<input type="checkbox"/>	
Others	<input checked="" type="checkbox"/>	Approved in the United States against TGE virus, undiluted, 2 minutes

Reference:

*EPA registration number: 67619-20.

Class: Quaternary ammonium

Type of product: Liquid

Active ingredient(s)	Concentration (%)
Alkyl dimethyl ethyl benzyl ammonium chloride	0.105 p/p
Benzalkonium chloride	0.105 p/p

Application rate: Not available

Propylene glycol dilution protocol: Not available

Commercial name: D-125 Microgen

DIN: 02290316



Manufacturer: 102-33 Clinton Rd
West Caldwell, NEW JERSEY
ÉTATS UNIS 07006
Website: <https://www.microgeninc.com/>

Distributor:

Website: <https://www.microgeninc.com/>

Contact person: Scott DeLeo**Telephone:** 1-978-623-9980. ext. 2238**Direct:****Cell.:** 1-781-258-1898**Email:** sdeleo@icpgroup.com**Effective against the causative agent of:****Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Approved in the United States against Human Coronavirus*, 1:64 (15 ml/liter), 10 minutes
SDCV	<input checked="" type="checkbox"/>	Approved in the United States against Human Coronavirus*, 1:64 (15 ml/liter), 10 minutes
SVA	<input type="checkbox"/>	
Others	<input checked="" type="checkbox"/>	Approved in the United States against TGE virus*, 1:64 (15 ml/liter), 10 minutes

References:

*EPA registration number: 61178-1.

Class: Quaternary ammonium**Type of product:** Liquid

Active ingredient(s)	Concentration (%)
Alkyl dimethyl ethyl benzyl ammonium chloride	2.37
Benzalkonium chloride	2.37

Application rate: Apply to surface until wet.**Propylene glycol dilution protocol:** Not recommended

**Commercial name: DIFFIX+ Disinfectant Tablets**

DIN: 02505630

Manufacturer: Maxill
80 Elm Street
St. Thomas, Ontario N5R 6C8 CANADA
Website: <https://www.maxill.com/>

Distributor: Maxill
80 Elm Street
St. Thomas, Ontario N5R 6C8 CANADA
Website: <https://www.maxill.com/>

Contact person: Tanya Kobyłka**Telephone:** 519-631-3388**Direct:** 1-800-268-8633. ext. 244**Cell.:****Email:** tanyak@maxill.com**Effective against the causative agent of:****Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Approved in the United States*, (1076 ppm), 10 minutes
SDCV	<input checked="" type="checkbox"/>	Approved in the United States PED and Human Coronavirus*, (1076 ppm), 10 minutes
SVA	<input type="checkbox"/>	
Others	<input checked="" type="checkbox"/>	Approved in the United States against TGE virus*, (1076 ppm), 30 minutes

References:

- Homologue product Klorkleen 2. EPA registration number: 71847-7.

Class: Hypochlorite halogens**Type of product:** Effervescent tablets

Active ingredient(s)	Concentration (%)
Sodium dichloroisocyanurate	50.00 p/p

Application rate: 12 liters of solution per 1,000 pi² (ou 100 m²)**Propylene glycol dilution protocol:** Not recommended

Dilution table according to the concentration of Diffix + Disinfectant Tablets 13.1 g

Dilution rate (ppm)	Quantity of tablets	Liters of water
500	1	8
1 000	1	4
2 000	1	2
4 000	2	2
5 000	4	3

**Commercial name: Germisyl**

DIN: 02276976

Manufacturer: Germiphene Corporation
1379 Colborne Street E.
Brantford, Ontario N3T 5M1
CANADA
Website: <https://germiphene.com/>

Distributor: CEVA Santé Animale
1040 Fountain St. N.
Cambridge, Ontario N3E 5M1
CANADA
Website: <https://www.ceva-canada.ca/>

Contact person: Dre Anne Lemay
Telephone: 1-800-510-8864
Fax: 519-560-9576

Cell.: 613-266-1847
Email: anne.lemay@ceva.com

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Canadian label claim against <i>Coronavirus</i> , 0.4% (4 ml/1 L of water), 10 minutes
SDCV	<input checked="" type="checkbox"/>	Canadian label claim against <i>Coronavirus</i> , 0.4% (4 ml/1 L of water), 10 minutes
SVA	<input checked="" type="checkbox"/>	Canadian label claim against <i>Picornaviridae</i> , 0.4% (4 ml/1 L of water), 10 minutes
Others	<input type="checkbox"/>	

Reference: Canadian label

Class: Quaternary ammonium

Type of product: Liquid

Active ingredient(s)	Concentration (%)
Benzalkonium chloride	6.14
Didecyl-dimethyl ammonium chloride	9.22

Application rate: Not available

Propylene glycol dilution protocol: Not available

**Commercial name: Gluquat 2****DIN:** 02318393

Manufacturer: West Penetone inc.
10900. rue Secant
Montréal, Quebec H1J 1S5
CANADA
Website: <https://westpenetone.com/>

Distributor: West Penetone inc.
10900. rue Secant
Montreal, Quebec H1J 1S5
CANADA
Website: <https://westpenetone.com/>

Contact person: Laurie Bélanger
Telephone: 1-800-361-8927
Cell.: 438 864-8265

Fax:
Email: lbелanger@westpenetone.com

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	ATS LABS ¹ effectiveness test. 0.4% (4 ml/liter), 10 minutes
SDCV	<input checked="" type="checkbox"/>	Tested against PED virus, 0.4% (4 ml/liter), 10 minutes
SVA	<input type="checkbox"/>	
Others	<input type="checkbox"/>	

Reference:

¹Conway, S. (2014). Report-Virucidal efficacy of a disinfectant for use on inanimate environmental surfaces. Virus: porcine epidemic diarrhea virus. Gluquat 2. (A16713). Eagan, MN, USA: ATS LABS.

Class: Quaternary ammonium + aldehyde**Type of product:** Liquid

Active ingredient(s)	Concentration (%)
Octyl decyl dimethyl ammonium chloride	6.00
Benzalkonium chloride	8.00
Didecyl-dimethyl ammonium chloride	3.00
Diocetyl-dimethyl ammonium chloride	3.00
Glutaraldehyde	7.50

Application rate: Not available**Propylene glycol dilution protocol:** Compatible

Dilution of Gluquat 2 with PROPYLENE GLYCOL FOR WINTER USE

It is possible to mix Gluquat 2 with propylene glycol to disinfect surfaces at low temperatures.

Step 1: Prepare a solution of 1 liter of Gluquat 2 at the necessary concentration, depending on the temperature.

Step 2: Add the amount of propylene glycol.

Table indicating the quantities of Gluquat 2 and propylene glycol to use depending on the outside temperature.

Quantity of Gluquat 2 in ml	Addition of water	Volume of propylene glycol	Temperature
9.0	1.0 liter	112.0 ml	-3°C
10.0		250.0 ml	-8°C
12.0		429.0 ml	-14°C
14.0		667.0 ml	-22°C
16.0		1 liter	-34°C
20.0		1.5 liter	-48°C

Source: Découvrez notre programme complet de nettoyage et de désinfection des véhicules de transport d'animaux. West Penetone inc. 10900. rue Secant, Montréal (Quebec) H1J 1S5. Canada (www.westpenetone.com).

Commercial name: Hyperox

DIN: 02240361



Manufacturer: Lanxess
Kennedy pl. 1. 50679 Köln
Cologne, ALLEMAGNE
Website: <https://lanxess.com/>

Distributor: Vétoquinol N.-A. inc.
2000. chemin Georges
Lavaltrie, Quebec J5T 3S5 CANADA
Website: <https://www.vetoquinol.ca/>

Contact person: Isabelle Dorion

Telephone: 1-800-565-0497

Cell.: 418-802-8720

Fax: 450-515-1554

Email: isabelle.dorion@vetoquinol.com

Effective against the causative agent of:

Type of study, dilution and contact time:

PED	<input type="checkbox"/>	
SDCV	<input type="checkbox"/>	
SVA	<input checked="" type="checkbox"/>	Approved in the UK DEFRA* for foot and mouth disease, 1:150, 30 minutes ¹
Others	<input type="checkbox"/>	

References:

* http://disinfectants.defra.gov.uk/DisinfectantsExternal/Default.aspx?Module=ApprovalsList_SI.

¹(17) from Lanxess Studies Reference.

Class: Oxidizing agent

Type of product: Liquid

Active ingredient(s)	Concentration (%)
Acide peracétique	5.0
Hydrogen peroxide	25.0

Application rate: 30 litres de solution/100 m² (ou 1 000 pi²)

Propylene glycol dilution protocol:

Not available

Hyperox dilution rate

Dilution of disinfectant	Quantity of Hyperox (ml)	Liters of water
1:50	10	0.5
1:100	10	1
1:150	10	1.5
1:500	10	5

Commercial name: Klorkleen 2

DIN: 02484730

Manufacturer: Medentech LTD.
Clonard Road, Wexford
Wexford, IRLANDE
Website: <https://www.medentech.com/>

Distributor: Kersia Canada
390. boul. Saint-Laurent Est, C.P. 6
Louiseville, Quebec CANADA J5V 2L7
Website: <https://www.kersia.ca/fr/>

Contact person: Mark Hodgson
Telephone: 819-228-5564
Direct: 514-630-3309. ext. 263

Cell.: 732 492-8665
Email: mark.hodgson@kersia-group.com

Effective against the causative agent of:

Type of study, dilution and contact time:

PED	✓	Approved in the United States*, (1076 ppm), 10 minutes
SDCV	<input checked="" type="checkbox"/>	Approved in the United States PED and Human Coronavirus*, (1076 ppm), 10 minutes
SVA	<input type="checkbox"/>	
Others	✓	Approved in the United States against TGE virus*, (1076 ppm), 30 minutes

References: *EPA registration number: 71847-7.

Class: Hypochlorite halogens

Type of product: Effervescent tablets

Active ingredient(s)	Concentration (%)
Sodium dichloroisocyanurate	50.00 p/p

Application rate: 12 liters of solution per 1,000 ft² (or 100 m²)

Propylene glycol dilution protocol: Not recommended



Dilution table according to the concentration of Klorkleen 2 (1.7gr)

Dilution rate (ppm)	Quantity of tablets	Liters of water
500	1	2
1 000	1	1
4 000	4	1
5 000	5	1



Commercial name: MS Megades Kiemkill

DIN: 02437546

Manufacturer: The Schippers Group
Smaragdweg 60. 5527 LB
Hapert, Netherlands

Website: <https://www.schippers.eu/>

Distributor: MS Schippers Canada
120-27211 Highway 12
Lacombe County, Alberta T4L 0E3 CANADA

Website: <https://www.schippers.ca/fr/>

Contact person: Claude Morin

Telephone: 1-866-995-7771

Cell.: 819-820-4436

Fax: 1-866-995-7772

Email: c.morin@schippers.ca

Effective against the causative agent of:

Type of study, dilution and contact time:

PED	<input type="checkbox"/>	
SDCV	<input type="checkbox"/>	
SVA	<input checked="" type="checkbox"/>	UK DEFRA* approved for foot and mouth disease, 1:999 (0.1%), 30 minutes
Others	<input type="checkbox"/>	

References:

* http://disinfectants.defra.gov.uk/DisinfectantsExternal/Default.aspx?Module=ApprovalsList_Sl.

Classe: Oxidizing agent

Type of product: Powder

Active ingredient(s)	Concentration (%) p/p
Sodium dichloroisocyanurate	2.5
Péroxymonosulfate de potassium	45

Application rate: Enough quantity to keep surfaces moist during exposure time

Propylene glycol dilution protocol: Not recommended

Commercial name: Neogen Viroxide Super

DIN: 02525100

Manufacturer: Neogen Corporation
1-4 Sandfield Industrial Park, Dodgson Street
Rochdale Lancashire OL16 5SJ ROYAUME-UNI
Website: <https://www.neogen.com/>

Distributor: SyrVet Canada
207A, des Alouettes
Saint-Alphonse-de-Granby, Quebec J0E 2A0 CANADA
Website: <https://www.syrvetcanada.ca/>

Contact person: Réal Sauvage**Telephone:** 1 888 779-7838**Fax:** 450-361-1505**Cell.:** 450-361-1504**Email:** realsauvage@syrvetcanada.ca**Effective against the causative agent of:****Type of study, dilution and contact time:**

PED	✓	Tested at Analytical Lab Group-Midwest, 1% (100ml/L), 10 minutes, 20°C.
SDCV	☑	Tested against PED virus, 1% (100ml/L), 10 minutes, 20°C.
SVA	☑	UK DEFRA* approved against foot and mouth disease virus, 1:1300 (0.077%), 50g per 65 liters, 30 minutes
Others	✓	EU claim: EN 14675:2015, against TGE* virus, 1:500. 30 minutes

Reference:* http://disinfectants.defra.gov.uk/DisinfectantsExternal/Default.aspx?Module=ApprovalsList_SI.¹ Studies provided by the manufacturing company**Class:** Oxidizing agent**Type of product:** Powder

Active ingredient(s)	Concentration (%)
Pentapotassium Bisulfate	50.00
Sodium chloride	1.50

Application rate: Not available**Propylene glycol dilution protocol:** Not available

Commercial name: Penquat FD

DIN: 02350009

Manufacturer: West Penetone inc.
10900. rue Secant
Montreal, Quebec H1J 1S5
CANADA
Website: <https://westpenetone.com/>

Distributor: West Penetone inc.
10900. rue Secant
Montreal, Quebec H1J 1S5
CANADA
Website: <https://westpenetone.com/>

Contact person: Laurie Bélanger**Telephone:** 1-800-361-8927**Cell.:** 438-864-8265**Fax:****Email:** lbelanger@westpenetone.com**Effective against the causative agent of:****Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Tested at ATS LABS1 against TGE* virus, 8% (10 ml/1.2 liters) 30 minutes
SDCV	<input checked="" type="checkbox"/>	Tested at ATS LABS1 against TGE* virus, 8% (10 ml/1.2 liters) 30 minutes
SVA	<input type="checkbox"/>	
Others	<input checked="" type="checkbox"/>	Tested at ATS LABS1 against TGE* virus, 8% (10 ml/1.2 liters) 30 minutes

Reference:¹For the study Penquat FD had the experimental name « Penetone XF-7117 ».

* EPA registration number: 10190-14.

Class: Quaternary ammonium**Type of product:** Liquid

Active ingredient(s)	Concentration (%)
Octyl decyl dimethyl ammonium chloride	3.25
Benzalkonium chloride	4.34
Didecyl-dimethyl ammonium chloride	1.63
Diocetyl-dimethyl ammonium chloride	1.63

Application rate: 10.0 liters of solution for 1 000 pi² (or 100 m²)**Propylene glycol dilution protocol:** Compatible

Dilution of Penquat FD with PROPYLENE GLYCOL FOR WINTER USE

It is possible to mix Penquat FD with propylene glycol to disinfect surfaces at low temperatures.

Step 1: Prepare a 1 liter solution of Penquat FD at the necessary concentration, depending on temperature.

Step 2: Add the amount of propylene glycol.

Table indicating the quantities of Penquat FD and propylene glycol to use depending on the outside temperature

Quantity of Penquat FD in ml	Add water	Propylene glycol volume	Temperature
9.0	1.0 litre	112.0 ml	-3°C
10.0		250.0 ml	-8°C
12.0		429.0 ml	-14°C
14.0		667.0 ml	-22°C
16.0		1 litre	-34°C
20.0		1.5 litre	-48°C

Source: Discover our complete cleaning and disinfection program for animal transport vehicles. West Penetone inc. 10900. rue Secant, Montréal, Quebec H1J 1S5. Canada (www.westpenetone.com).

**Commercial name: PF 300**

DIN: 02248634

Manufacturer: DuBois Chemicals Inc.
3630 E Kemper Rd
Sharonville, OH 45241
ÉTAT-UNIS

Website: <https://www.duboischemicals.com/>

Distributor: DuBois Chemicals Canada, Inc.
6500 Rte Transcanadienne,
Saint-Laurent, QC H4T 1X4
CANADA

Website: <https://www.duboischemicals.com/>

Contact person: Mathew Bonarek

Telephone: 800 438-2647

Cell.: 514-805-5121

Fax:

Email: Mathew.Bonarek@duboischemicals.com

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Tested at the University of Minnesota ¹ . 0.25% (1:400), 5 minutes
SDCV	<input checked="" type="checkbox"/>	Tested at the University of Minnesota ¹ against PED virus, 0.25% (1:400), 5 minutes
SVA	<input type="checkbox"/>	
Others	<input type="checkbox"/>	

Reference:

¹ Results provided by the company.

Class: Quaternary ammonium + aldehyde

Type of product: Liquid

Active ingredient(s)	Concentration (%)
Didecyl-dimethyl ammonium chloride	6.72
Glutaraldehyde	12.5

Application rate: 10.0 litres de solution pour 1 000 pi² (ou 100 m²) **Propylene glycol dilution protocol:** Compatible

Using PF 300 below freezing temperatures

At below freezing temperatures, PF 300 can be mixed with propylene glycol for disinfection. The tables below will give you a good idea of the concentrations to use depending on the temperature.

For 1:200 (0.5%) 5 ml of PF 300	1L de Solution de PF300 et propylène glycol			
	Water (ml)	Propylene glycol (ml)	Temperature	
			°C	°F
	895	100	-4	25
	795	200	-7	20
	695	300	-12	10
	595	400	-21	-5
	495	500	-34	-30
	395	600	-51	-60
For 1:100 (1%) 10 ml of PF 300	890	100	-4	25
	790	200	-7	20
	690	300	-12	10
	590	400	-21	-5
	490	500	-34	-30
	390	600	-51	-60

Source: DuBois, PF 300 sous zéro, 2015.

Commercial name: Prevail Animal Premise Disinfectant Cleaner

Concentrate DIN: 02436809

Ready to use (RTU) DIN: 02436795

Wipes DIN: 02436787

Manufacturer: Virox Technologies inc.
2770. Coventry Road
Oakville, Ontario L6H 6R1
CANADA

Distributor: EthoGuard
40193 Blyth Road, BLYTH, Ontario
N0M 1H0
CANADA

Website: <https://www.viroxanimalhealth.com/>

Website: <https://www.ethoguard.com/>

Contact person: Mark Beaven

Telephone: 226-523-5969

Cell.: 519-955-7725

Fax:

Email: info@ethoguard.com

Effective against the causative agent of:

Type of study, dilution and contact time:

PED	✓	Health Canada approved ¹ , 1:40, 5 minutes on dry surface
SDCV	☑	Health Canada approved for PED virus ¹ , 1:40, 5 minutes on dry surface
SVA	✓	Tested by the CFIA NCFAD ² . 1:40. 5 minutes on dry surface. Approved in the United States*
Others	✓	Approved in the United States* against TGE virus, 1:40. 5 minutes on dry surface

References:

¹ Canadian label.

² Hole, K., *et al.* 2016. Efficacy of accelerated hydrogen peroxide® disinfectant on Foot-and-Mouth Disease virus, Swine Vesicular Disease virus and Senecavirus A. *Journal of Applied Microbiology* ISSN 1364-5072.

* Homologue product Accel Disinfectant Cleaner, EPA registration number: 74559-4.

Class: Oxidizing agent

Type of product: Liquid

Active ingredient(s)	Concentration	Ready to use (RTU)	Wipes
Hydrogen peroxide	7 %	0.5 %	0.5 %

Application rate: 12 liters of solution/1000pi² (100 m²)

Propylene glycol dilution protocol: Compatible



Dilution table according to the concentration of Prevail Animal Premise Disinfectant Cleaner Concentrate

Taux de dilution du désinfectant	ml produit/1 L d'eau
1:16	64
1:40	25
1:64	16

Dilution of Prevail Animal Premise Disinfectant Cleaner Concentrate with PROPYLENE GLYCOL FOR WINTER USE

The freezing point of Prevail Animal Premise Disinfectant is Reduced by using propylene glycol with water as a diluent.

Step 1: Dilute Prevail Animal Premise Disinfectant Concentrate to a dilution rate of 1:40.

Step 2: Apply the solution to the surfaces to be disinfected and allow contact time depending on temperature.

Table of the effect of adding propylene glycol to Prevail Animal Premise Disinfectant Cleaner Concentrate for 4 liters of solution

Dilution rate	Quantity of Prevail	Water ¹ (ratio)	Propylene glycol (ratio)	Temperature	Contact time
1:40	100 ml	2800 ml (70.0 %)	1200 ml (30%)	-14.3°C	60 minutes
1:40	100 ml	3200 ml (20%)	800 ml (20%)	-8°C	40 minutes
1:40	100 ml	3400 ml (85%)	600 ml (15%)	-6.6 °C	30 minutes

¹ **Note:** The use of salt water (or any saline source) is not recommended.

Source: Prevail Concentrate-Cold Weather Disinfection Procedure, PRE002 (09/03/2020).

Commercial name: Spectragen**DIN:** 02461935

Manufacturer: Synthèse Élevage
 11. rue Marie Curie
 35137 Pleumeleuc
 FRANCE
Website: <https://www.syntheseelevage.com/>

Distributor: S.E.C. Repro inc.
 86. Rue Roy Ange-Gardien-de-Rouville
 Quebec, Quebec JOE 1EO
 CANADA
Website: <https://secrepro.com/>

Contact person: Louis Bonneville
Telephone: 450-293-0157
Direct: 450-293-0156

Cell.: 450-776-0596
Courriel: louis@secrepro.com

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Tested at Apex Biosolutions, France, 0.40%, 30 minutes at 10°C.
SDCV	<input checked="" type="checkbox"/>	EU claim against PED virus, 0.40%, 30 minutes at 10°C
SVA	<input checked="" type="checkbox"/>	Tested against foot-and-mouth disease virus, 0.50%, 4°C, 30 minutes, in medium dirt ¹
Others	<input type="checkbox"/>	

Reference: ¹Studies provided by the company Synthèse élevage.

Classe: Quaternary ammonium et aldehyde

Type of product: Liquid

Active ingredient(s)	Concentration (%)
Benzalkonium chloride	18.96
Didecyl-dimethyl ammonium chloride	6.63
Glutaraldehyde	16.11

Application rate: 20 liters of solution for 1 000 pi² (or 100 m²)

Propylene glycol dilution protocol: Compatible

Table of the effect of adding monopropylene glycol to a 1% solution of Spectragen

Monopropylene glycol (%)	Temperature
15.0	-5°C
25.0	-10°C
35.0	-15°C
40.0	-20°C
45.0	-27°C

Commercial name: Sterilex Ultra-Kleen CIP Solution 1 and activator

DIN: 02402432

Manufacturer: Sterilex
111 Lake Front Drive
Hunt Valley, MD 21030
Site Web: <https://www.sterilex.com>

Distributor: Ecolab
2222. boul. Dagenais Ouest, suite 201
Laval, Quebec H7L 5Y2
Site Web: www.ecolab.ca

Contact person: Éric Chatigny**Telephone:** 514-781-2622**Cell.:** 514-781-2622**Fax:****Email:** eric.chatigny@ecolab.ca**Effective against the causative agent of:****Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Tested at 378.5 – 473.2 ml of Sterilex Ultra 1 solution and 378.5 – 473.2 ml of Sterilex Ultra activation solution per 3.79 L of water (1:1:10–1:1:8), 10 minutes ¹
SDCV	<input checked="" type="checkbox"/>	Approved in the United States, against the PED virus at 378.5 – 473.2 ml of Sterilex Ultra 1 solution and 378.5 – 473.2 ml of Sterilex Ultra activation solution per 3.79 L of water (1:1:10–1:1:8), 10 minutes ¹
SVA	<input type="checkbox"/>	
Others	<input type="checkbox"/>	

References:

¹ Goyal, S.M. (2014), Report-Virucidal efficacy of Sterilex Ultra Powder against PEDV (porcine epidemic diarrhea virus). Saint Paul, MN, USA: University of Minnesota. EPA registration number: 63761-8.

Class: Quaternary ammonium + Oxidizing agent**Type of product:** Liquid, 2 container kit

Active ingredient(s)	Concentration (%)
Alkyl dimethyl ethyl benzyl ammonium chloride	3.00
Benzalkonium chloride	3.00
Hydrogen peroxide	6.30

Application rate: Not available**Propylene glycol dilution protocol:** Not available

Commercial name: Sterilex Ultra-Kleen CIP Solution 1 and activator



Commercial name: Synergize

DIN: 02260336

Manufacturer: Neogen Corporation
1-4 Sandfield Industrial Park, Dodgson Street
Rochdale Lancashire OL16 5SJ ROYAUME-UNI
Website: <https://www.neogen.com/>

Distributor: SyrVet Canada
207A, des Alouettes,
Saint-Alphonse-de-Granby, Quebec J0E 2A0 CANADA
Website: <https://www.syrvetcanada.ca/>

Contact person: Réal Sauvage

Telephone: 1 888 779-7838

Cell.: 450-361-1504

Fax: 450-361-1505

Email: realsauvage@syrvetcanada.ca

Effective against the causative agent of:

Type of study, dilution and contact time:

PED	✓	Tested at the University of South Dakota ¹ and the University of Iowa at 1:256. 60 and 10 minutes, respectively ² .
SDCV	☑	Approved in the United States* against the PED virus
SVA	✓	Tested at the University of South Dakota, 1:256, 60 minutes ³ .
Others	☐	

Reference:

¹ Nelson, E.A., Parmar, R. (2013), Report- Assessment of ability of a commercial disinfectant to inactivate porcine epidemic diarrhea virus (PEDV) on a plastic surface. Synergize. Animal Disease Research & Diagnostic Laboratory (ADRDL), Vermillion, SD, USA: South Dakota State University.

² Thomas, P., et al. 2014. Methods for inactivating PEDV in Hog Trailers. Twenty-second Annual Swine Disease Conference for Swine Practitioners, November 13-14. Ames, Iowa, USA, p.43-50

³ Diel, D. (2016), Assessment of ability of a commercial Disinfectant to Inactivate Seneca Virus A (SVA) on a Plastic Surface. Synergize. Animal Disease Research & Diagnostic Laboratory (ADRDL), Brookings, SD, USA: South Dakota State University.

* EPA registration number: 66171-7.

Class: Quaternary ammonium et aldehyde

Type of product: Liquid

Active ingredient(s)	Concentration (%)
Benzalkonium chloride	26.00
Glutaraldehyde	7.00

Application rate: Not available

Propylene glycol dilution protocol: Compatible



Recommended Procedures for Disinfecting Tires, Trailers, and Footbaths in Cold Weather

Temperature	% propylene glycol	Propylene glycol (ml)	Water (liter)
-6 à 0 °C (21 - 31 °F)	2.5 %	25	0.975
-11 à - 6 °C (11 – 20 °F)	5.0 %	50	0.950
-17 à - 12 °C (0 – 10 °F)	10 %	100	0.900

Source: An update on PRRSV biosecurity research Scott Dee, DVM MS PhD Dipl ACVM, John Deen, DVM MS PhD Dipl ACVP, Jennifer Schurrer, BA, Jenny Cho, BA, Roger Moon, PhD, Montserrat Torremorell, DVM PhD, Danny Burns, DVM, George Douthit, BS, Carlos Pijoan, DVM PhD, Department of Veterinary Population Medicine, University of Minnesota. Allen Leman Swine Conference, 2004.

Commercial name: Thymox AG

DIN: 02390000

Manufacturer: Laboratoire M2
4005-A, rue de la Garlock
Sherbrooke, Quebec J1L 1W9 CANADA
Website: <https://thymox.com/>

Distributor: Laboratoire M2
4005-A, rue de la Garlock
Sherbrooke, Quebec J1L 1W9 CANADA
Website: <https://thymox.com/>

Contact person: Emilie St-Pierre

Telephone: 1-866-898-0697. ext. 120
Cell.: 819-574-7256

Fax: 819-563-0698
Email: estpierre@thymox.com

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	✓	Canadian label claim. ATS-LABS tested, 1%, 1 minute, 20°C ¹ .
SDCV	☑	Canadian label claim against the PED virus. ATS-LABS tested, 1%, 1 minute 20°C ¹ .
SVA	☐	
Others	☐	

Reference:¹Report provided by the company.**Class:** Phenol**Type of product:** Liquid

Active ingredient(s)	Concentration
Thymol	23 %

Application rate: Not available**Propylene glycol dilution protocol:** Compatible

Dilution of Thymox AG

Use Thymox AG at 1% v/v, i.e. 1L of product per 99 L of water. It is recommended to carry out the dilution shortly before using the product.

Use of Thymox AG with propylene glycol

Thymox AG can be used when the air temperature is below zero, it is recommended to use propylene glycol to replace water in a ratio of 30% propylene glycol and 70% water.

**Commercial name: Virkon**

Powder DIN: 02125021

Tablets DIN: 02253917

Manufacturer: Lanxess
Kennedy pl. 1. 50679 Köln
Cologne, Germany
Website: <https://lanxess.com/>

Distributor: Vétquinol N.-A. inc.
2000. chemin Georges
Lavaltrie, Quebec J5T 3S5
Website: <https://www.vetoquinol.ca/>

Contact person: Isabelle Dorion**Telephone:** 1-800-565-0497**Fax:** 450-515-1554**Cell.:** 418-802-8720**Email:** isabelle.dorion@vetoquinol.com**Effective against the causative agent of:****Type of study, dilution and contact time:**

PED	✓	ATS-LABS tested, at 1:200 and 1:600. 10 minutes 5°C ¹ .
SDCV	☑	Tested against PED virus, at 1:200 and 1:600. 10 minutes 5°C ¹ .
SVA	☑	Study carried out by an independent laboratory (276) against the foot-and-mouth disease virus ² . Claim in the United States for the same virus 1:100. 10 minutes ³ .
Others	✓	Canadian label claim against TGE virus, 1%, 10 minutes.

References:¹ Report provided by the company² (#) Lanxess study reference.³ EPA registration number: 39967-137.**Class:** Oxidizing agent**Type of product:** Powder or Tablets

Active ingredient(s)	Virkon	Virkon tablets
Potassium peroxymonosulfate	21.40 %	21.4 %

Application rate: 25 L of solution/100 m² (or 1 000 pi²)**Propylene glycol dilution protocol:**

Max 20.0 % of propylene glycol

Dilution table according to concentration and number of Virkon tablets

Water	Disinfectant dilution rate		
	1:100 (1 %)	1:200 (0.5 %)	1:400 (0.25 %)
1 litre	10 gr (2 tablets)	5 g (1 tablet)	2.5 g (0.5 tablet)
50 litres	500 gr (100 tablets)	250 g (50 tablets)	125 g (25 tablets)
300 litres	3 kg (1 800 tablets)	1.5 kg (900 tablets)	0.75 kg (450 tablets)

DILUTION OF VIRKON WITH PROPYLENE GLYCOL FOR USE IN WINTER

The freezing point of a 1.0% Virkon solution can be Reduced if this solution is mixed with propylene glycol.

Step 1: Propylene glycol is mixed with water.

Step 2: The propylene glycol and water blend is mixed with the Virkon.

The table below indicates the concentrations of propylene glycol to use depending on the temperature and life of the final solution.

Table indicating the rate of propylene glycol to add to the disinfectant solution for washing trucks.

Virkon			
Solvents	Final concentration of Virkon in the solution	Temperature	Maximum recommended lifespan of the solution
Water: 100.0 %	1.0 %	-11°C	7 days
90.0 % water: 10.0 % propylene glycol	1.0 %	-14°C	3 days
80.0 % water: 20.0 % propylene glycol	1.0 %	-17°C	2 days

* The volume of the Virkon concentrate is generally not included in the total volume of the solution.

Source: Dupont Disinfectants, December 2013. Antec-International.

Commercial name: Virocid

DIN: 02239726



Manufacturer: CID LINES Belgium
Waterpoorstraat, 2
8900 Ieper Belgique
Website: <https://www.cidlines.com/en-INT>

Distributor: DCL Nutrition et Santé Animale
6340. rue Choquette
Saint-Hyacinthe, Quebec J2S 8L1 CANADA
Website: <https://www.dclworld.ca/>

Contact person: Miguel Delisle
Telephone: 450-773-0770
Cell.: 514-245-5545

Fax: 450-773-9491
Email: mdelisle@dcl.ag

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	Tested ATS-LABS, at 1:400 and 1:256. 10 minutes 20°C ¹ .
SDCV	<input checked="" type="checkbox"/>	Tested ATS-LABS for PED virus, at 1:400 and 1:256. 10 minutes 20°C ¹ .
SVA	<input checked="" type="checkbox"/>	Tested at INRV, Belgium against the foot and mouth disease virus, 0.10% (1:1000), 10 minutes ¹
Others	<input type="checkbox"/>	

References: ¹ Studies provided by CID Lines.

Class: Quaternary ammonium et aldehyde **Type of product:** Liquid

Active ingredient(s)	Concentration (%)
Alkyl dimethylbenzylammonium chloride	17.06
Glutaraldehyde	10.73
Didecyclic dimethylammonium chloride	7.80

Application rate: 23.0 liters of solution for 100 m²/1 000 pi²

Propylene glycol dilution protocol: Compatible



DILUTION OF VIROCID WITH PROPYLENE GLYCOL FOR WINTER USE

Warning: Always dilute propylene glycol with water before adding Virocid at the required rate.

Step 1: Mix propylene glycol with water at the appropriate concentration depending on the temperature, as shown in the table below

Volume (%)	Temperature (°C)	Temperature (°F)
0.0	0	32
5.0	-2	28
10.0	-3	27
15.0	-5	23
20.0	-7	19
25.0	-10	14
30.0	-13	9
35.0	-16	3
40.0	-21	-6
45.0	-27	-17
50.0	-34	-29
55.0	-42	-44
60.0	-51	-60

Step 2: Add Virocid at the appropriate rate

Example: At a temperature of -7°C, add propylene glycol at a rate of 20.0% with water (1 part propylene glycol with 4 parts water). If you want 1.0 L of solution, you need 200.0 ml of propylene glycol and 800.0 ml of water. Then to have a disinfectant solution diluted to 0.25% or in a ratio of 1:400. You must mix 2.5 ml of Virocid in 997.5 ml of water-propylene glycol solution.

Source: Luc Ledoux, CID Lines January 2014 , CID LINES Belgium Waterpoorstraat, 2. 8900 Ieper, Belgique.

Section III. Biocidal chemical compounds

Name of chemical compound: Acetic acid

Examples of common names: vinegar

Effective against the causative agent of:

Type of study, dilution and contact time:

PED	<input type="checkbox"/>	
SDCV	<input type="checkbox"/>	
SVA	<input checked="" type="checkbox"/>	Approved for FMD virus in the US, emergency exemption, 0.5%, 10 minutes wet contact ¹ . The OIE reports the susceptibility of the foot-and-mouth disease virus at 2.0% ² .
Others	<input type="checkbox"/>	

References:¹ FIFRA section 18 Emergency Exemption Label (Rev. 8/30/18).² OIE, 2013. OIE technical fact sheet. Foot and Mouth Disease.https://www.woah.org/fileadmin/Home/eng/Animal_Health_in_the_World/docs/pdf/Disease_cards/FOOT_AND_MOUTH_DISEASE.pdf

Class: Oxidizing agent

Type of product: Liquid

Active ingredient(s)	Concentration
Acetic acid (CH ₃ COOH)	4 à 100 %

Application rate: Not available

Propylene glycol dilution protocol: Not available

Dilution table according to the concentration of acetic acid for a 0.5% solution

Concentration (%)	ml product /1 litre water
4	143
8	286
80-85	6.3-6
100	5

Name of chemical compound: Citric acid**Examples of common names:** CLR, Alaska Multi-Surfaces disinfectant, GC 2. Selectroicide 12G, Alphasol Disinfectant**Effective against the causative agent of:****Type of study, dilution and contact time:**

PED	<input type="checkbox"/>	
SDCV	<input type="checkbox"/>	
SVA	<input checked="" type="checkbox"/>	Approved in anhydrous form in the USA for FMD virus under emergency exemption, 3%, 15 minutes wet contact non-porous surfaces, 30 minutes on porous ¹ . The OIE reports the susceptibility of the foot-and-mouth disease virus at 0.2% ² .
Others	<input type="checkbox"/>	

References:¹ FIFRA section 18 Emergency Exemption Label (Rev. 2/11/19).² OIE, 2013. OIE technical fact sheet. Foot and Mouth Disease.https://www.woah.org/fileadmin/Home/eng/Animal_Health_in_the_World/docs/pdf/Disease_cards/FOOT_AND_MOUTH_DISEASE.pdf**Class:** Oxidizing agent**Type of product:** Powder and Liquid

Active ingredient(s)	Concentration
Citrique acid (C ₆ H ₈ O ₇)	100 %

Application rate: Not available**Propylene glycol dilution protocol:** Not available

Name of chemical compound: **Anhydrous sodium carbonate**

Examples of common names: Sodium carbonate, soda crystals

Effective against the causative agent of:

Type of study, dilution and contact time:

PED	✓	The OIE reports the sensitivity of the virus at 4% ¹
SDCV	☑	The OIE reports the sensitivity of the PED virus at 4% ¹
SVA	☑	The OIE reports the susceptibility of the foot-and-mouth disease virus at 4% ²
Others	☐	

References:

¹ OIE, 2014. OIE technical fact sheet. Infection with Porcine Epidemic Diarrhoea virus.

https://www.woah.org/fileadmin/Home/fr/Media_Center/docs/pdf/factsheet_PEDV.pdf.

² OIE, 2013. OIE technical fact sheet. Foot and Mouth Disease.

https://www.woah.org/fileadmin/Home/eng/Animal_Health_in_the_World/docs/pdf/Disease_cards/FOOT_AND_MOUTH_DISEASE.pdf

Class: Oxidizing agent

Type of product: Powder

Active ingredient(s)	Concentration
Sodium carbonate (Na ₂ CO ₃)	≥99.5 %

Application rate: Not available

Propylene glycol dilution protocol: Not available

Name of chemical compound: Formaldehyde

Examples of common names: Parasite-S, BM Chemical Autoclave solution, Professional Preference Formaldehyde, Profilm Fumigant Concentrate Solution

Effective against the causative agent of:**Type of study, dilution and contact time:**

PED	<input checked="" type="checkbox"/>	The OIE reports the sensitivity of the virus at 4% ¹
SDCV	<input checked="" type="checkbox"/>	The OIE reports the sensitivity of the PED virus at 4% ¹
SVA	<input type="checkbox"/>	
Others	<input type="checkbox"/>	

References:

¹OIE, 2014. OIE technical fact sheet. Infection with Porcine Epidemic Diarrhoea virus.
https://www.woah.org/fileadmin/Home/fr/Media_Center/docs/pdf/factsheet_PEDV.pdf.

Class: Aldehydes

Type of product: Liquid

Active ingredient(s)	Concentration
Formaldehyde (CH ₂ O)	20-37 %

Application rate: 50 liters per square meter

Propylene glycol dilution protocol: Not available

Name of chemical compound: **Sodium hydroxide**

Nom commun: Caustic soda, lye

Effective against the causative agent of:

Type of study, dilution and contact time:

PED	✓	The OIE reports the susceptibility of the virus at 2% ¹
SDCV	☑	The OIE reports the susceptibility of the PED virus at 2% ¹
SVA	☑	Reported Effective against foot-and-mouth disease virus, 2%, 10 minutes ^{2,3}
Others	☐	

References:

¹ OIE, 2014. OIE technical fact sheet. Infection with Porcine Epidemic Diarrhoea virus.

https://www.woah.org/fileadmin/Home/fr/Media_Center/docs/pdf/factsheet_PEDV.pdf .

² Bieker J., 2006. Chemical Inactivation of Viruses. Abstract of dissertation, Kansas State University.

<https://krex.k-state.edu/dspace/handle/2097/226>

³ OIE, 2013. OIE technical fact sheet. Foot and Mouth Disease.

https://www.woah.org/fileadmin/Home/eng/Animal_Health_in_the_World/docs/pdf/Disease_cards/FOOT_AND_MOUTH_DISEASE.pdf

Class: Oxidizing agent

Type of product: Tablets

Active ingredient(s)	Concentration
Sodium hydroxide (NaOH)	100 %

Application rate: Not available

Propylene glycol dilution protocol: Not available

Name of chemical compound: Sodium hypochlorite

Examples of common names: Eau de Javel, Chloreco, Complete 12. Complete 6000. pH-Amended Ultra Clorox® Germicidal Bleach.

Effective against the causative agent of:

Type of study, dilution and contact time:

PED	<input type="checkbox"/>	
SDCV	<input type="checkbox"/>	
SVA	<input checked="" type="checkbox"/>	Reported Effective at 25°C, diluted 1:20 for 15 minutes ¹ . Approved in the USA under emergency waiver, 0.3%, 15 minutes wet contact non-porous surfaces, 30 minutes on porous ² . The OIE reports it Effective against the foot-and-mouth disease virus, 3% ³ .
Others	<input type="checkbox"/>	

References

¹ Singh, A.; Mor, S.K.; Aboubakr, H.; Vannucci, F.; Patnayak, D.P.; Goyal, S.M. Efficacy of three disinfectants against Senecavirus A on five surfaces and at two temperatures. J. Swine Health Prod. 2017. 25. 64–68. <https://www.aasv.org/shap/issues/v25n2/v25n2p64.html>

² FIFRA section 18 Emergency Exemption Label (Rev. 8/30/18).

³ OIE, 2013. OIE technical fact sheet. Foot and Mouth Disease.

https://www.woah.org/fileadmin/Home/eng/Animal_Health_in_the_World/docs/pdf/Disease_cards/FOOT_AND_MOUTH_DISEASE.pdf

Class: Hypochlorite halogens

Type of product: Liquid

Active ingredient(s)	Concentration
Hypochlorite de sodium (NaClO)	5.25-12.5 % et plus

Application rate: Not available

Propylene glycol dilution protocol: Not available