

FMD Virus Disinfectants

This table is intended to assist persons in finding U.S. Environmental Protection Agency (EPA)-registered disinfectants that may be used against foot-and-mouth disease virus (FMDv) in farm settings. The inclusion of any product on this table does not imply endorsement of the product by the United States Department of Agriculture (USDA) Animal and Plant Health Inspection Service (APHIS) Veterinary Services (VS). This list may not be all-inclusive.

The biosecurity officer of the USDA APHIS or State partner incident management team responding to a foreign animal disease incident should use, as their first recourse, a commercially available EPA-registered disinfectant according to the State-registered container label. The use sites summarized on the table below are from EPA-registered labels which can be found on EPA's Pesticide Product Label System (PPLS) at <https://iaspub.epa.gov/apex/pesticides/f?p=PPLS:1>. EPA-registered labels are often identical to the State-registered container labels; however, State labels may differ from EPA's label. Please use the table below as a first step to identify a potential EPA-registered product to use against FMDv; next, using website <http://npirspublic.ceris.purdue.edu/state/>, locate the appropriate State-registered container label to verify all necessary uses are also on the container label.

If a suitable commercially available EPA and State-registered disinfectant is not available, only then may a disinfectant approved for use against FMDv under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 18 (i.e., a section 18 disinfectant) be used according to its section 18 label. Disinfectants approved for use against FMDv under a section 18 exemption are available on the APHIS VS website (https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/emergency-management/ct_disinfectants). Biosecurity officers should have with them a paper or electronic copy of the container and, if applicable, section 18 label, and ensure that disinfectants are prepared and applied according to the appropriate label(s). Biosecurity officers using a section 18 disinfectant must record the amounts used and report this on a monthly basis to Nathan.G.Birnbaum@usda.gov and Samantha.Bates@usda.gov.

If a product is being used as permitted by FIFRA section 2(ee)(2), the product must be used according to all product container label instructions, with the exception that the targeted pests (microbes) need not be specified on the container label.

EPA Products Approved for Use Against FMDv							Rev. April 17, 2018	
Reg. type	EPA Reg No	Product name	Manufacturer	Active ingredient(s)	Concentration (product/water)	Contact time	Registered Use Sites (according to NPIRS. Must confirm with label on container)	Website for EPA-Approved Label
FIFRA section 3	1677-129	Oxonia Active (*Alternate name Oxysept 333)	Ecolab, Inc.	Hydrogen peroxide Peroxyacetic acid	0.5 oz /gal	10 min	Livestock barns, livestock premises, animal quarters, animal cages, animal feeding/watering equipment, milking equipment, dairy equipment, and agricultural premises.	https://www3.epa.gov/pesticides/chem_search/ppls/01677-00129-20170720.pdf
FIFRA section 3	6836-86	Lonza DC 101	Lonza, Inc.	Alkyl dimethyl benzyl ammonium chloride Didecyl dimethyl ammonium chloride Octyl decyl dimethyl ammonium chloride Dioctyl dimethyl ammonium chloride	4 oz/gal	30 min	Livestock premises, livestock feeding and watering equipment, and livestock equipment.	https://www3.epa.gov/pesticides/chem_search/ppls/06836-00086-20121017.pdf
FIFRA section 3	10324-67	Maquat MQ615-AS	Mason Chemical Company	Alkyl dimethyl benzyl ammonium chloride Didecyl dimethyl ammonium chloride Octyl decyl dimethyl ammonium chloride Dioctyl dimethyl ammonium chloride	1 oz/gal	10 min	Livestock premises, livestock feeding and watering equipment, livestock equipment, livestock transportation vehicles, hog farrowing houses, hog barns/houses/parlors/pens, farrowing equipment, animal feeding and watering equipment, animal equipment, animal transportation vehicles, and shoe baths.	https://www3.epa.gov/pesticides/chem_search/ppls/010324-00067-20160421.pdf
FIFRA section 3	39967-137	Virkon S	Lanxess Corporation	Sodium chloride Potassium peroxymonosulfate	1.3oz (1 sachet) /gal	10 min	Animal feed equipment, livestock barns, livestock pens, livestock stalls, livestock stables, livestock equipment, cattle feedlot, hog farrowing pen premises, hog barns/houses/parlors/pens, animal quarters, animal feeding and watering equipment, animal equipment, agricultural premises, agricultural equipment, animal transportation vehicles, and human footwear.	https://www3.epa.gov/pesticides/chem_search/ppls/039967-00137-20171129.pdf
FIFRA section 3	70060-19	Aseptrol S10-TAB	BASF Catalysts, LLC	Sodium chlorite Sodium dichloroisocyanurate dihydrate	6 g (1 tablet) /gal	30 min	Animal cages, animal stables, animal feeding/watering equipment, animal equipment, and animal transportation vehicles.	https://www3.epa.gov/pesticides/chem_search/ppls/070060-00019-20151019.pdf
FIFRA section 3	70060-30	Aseptrol FC-TAB	BASF Catalysts, LLC	Sodium chlorite Sodium dichloroisocyanurate dihydrate	12 g (two 6g tablets) /gal	30 min	Livestock premises, livestock feeding equipment, livestock watering equipment, livestock equipment, livestock transportation equipment, animal quarters, animal cages, animal feeding and watering equipment, animal	https://www3.epa.gov/pesticides/chem_search/ppls/070060-00030-20121106.pdf

							equipment, animal transportation vehicles, and shoe baths.	
FIFRA section 3	74559-4	*ACCEL Concentrate Disinfectant Cleaner	Virox Technologies	Hydrogen peroxide	2oz/gal	10 min	Dairy farms, livestock premises, livestock buildings, animal quarters, animal cages, animal feeding/watering equipment, animal equipment, animal transportation vehicles, farm premises, agricultural buildings, shoe baths, and barns.	https://www3.epa.gov/pesticides/chem_search/ppls/074559-00004-20171108.pdf
FIFRA section 18	N/A	Various	Various	Acetic acid	0.5% acetic acid	10 min	Hard, nonporous, nonfood items or surfaces potentially contaminated with FMDv.	https://www.aphis.usda.gov/animal_health/emergency_management/downloads/acetic-acid-revised-label.pdf
FIFRA section 18	N/A	Various	Various	Citric acid	3% citric acid	15 min-nonporous 30 min-porous	Hard, nonporous and porous food and nonfood surfaces including, but not limited to, the following: any Federal, State, or private indoor or outdoor use site, such as: agricultural and non-agricultural equipment and facilities; transportation equipment and facilities; quarantine equipment and facilities; laboratory equipment and facilities; and footwear/personal protective equipment associated with the above use sites.	https://www.aphis.usda.gov/animal_health/emergency_management/downloads/CitricAcidexemptionlabel.pdf
FIFRA section 18	N/A	Various	Various	Sodium hypochlorite	3% (3,000 ppm) sodium hypochlorite	15 min-nonporous 30 min-porous	Any porous and nonporous surfaces at any Federal, State, or private indoor or outdoor use sites, including but not limited to, agricultural equipment and facilities; transportation equipment and facilities; quarantine equipment and facilities; laboratory equipment and facilities; and footwear/personal protective equipment associated with the above use sites.	https://www.aphis.usda.gov/animal_health/emergency_management/downloads/SodHypo_FMDvASFvCS_Fv_LABEL.pdf

*Label approved for use against FMDv will have alternate brand name, INTERvention Farm Animal Care Disinfectant Cleaner & Deodorizer