

fusion series

technical bulletin

fusion violet

multi surface cleaner + disinfectant

lemon scent

EPA Registration Number 1839-95-84179



fusion series is our line of housekeeping products designed to be easy to use, efficient and safe. From state-of-the-art dispensing solutions to clear, simple color-named packaging, we've created fusion products in ways that make house-keeping a pleasure.

Violet is a phosphate free formulation designed to provide effective cleaning, deodorization, and disinfection specifically for hospitals, nursing homes, colleges, food processing plants, food service establishments, office buildings, hotels and lodging establishments where housekeeping is of prime importance in controlling cross contamination.

features

- Concentrated – For most applications, effective at 1 to 64 dilution (2 oz. per gallon).
- An excellent all-around cleaner while simultaneously disinfecting.
- Powerful bactericide and virucide at 2 oz. per gallon – see attached list for impressive list of bacteria and viruses Violet effective against.
- Leaves behind a unique lemon scent.
- Excellent on all floors including standard commercial vinyl tiles (VCT).

optimal applications Floors, walls, metal surfaces, stainless steel surfaces, glazed porcelain, glazed ceramic tile, plastic surfaces, vanity tops, shower stalls, bathtubs, and cabinets.

ideal for Nursing homes, hospitals, schools, restaurants, institutional kitchens, food service establishments, ambulances, doctor's offices.



environmentally preferred
green cove[™]
Biodegradable
Non-Toxic
Phosphorous free

This product meets our Green Cove standard. **Environmentally Preferred Green Cove** products reflect our commitment to protect the environment, operate in a sustainable fashion and deliver products that make a difference for our planet and our customers every day.

product specifications

Physical Description	Clear Liquid
Viscosity	Water Thin
Color	Purple
Flashpoint	None
Fragrance	Lemony
Weight per Gallon	8.55 lb / gal
pH	10.0 - 12.0
Storage Stability	1 year minimum
D.O.T. Shipping label	Not regulated



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organism list

Disinfection: To disinfect inanimate, hard, non-porous surfaces add 2 ounces of Violet per gallon of water. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

To disinfect food processing premises: Before using this product, food products and packaging materials must be removed from the area or carefully protected. For floors, walls, and storage areas, add 2 ounces of Violet per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water.

To disinfect food service establishment food contact surfaces: Before using this product, food products and packaging materials must be removed from the area or carefully protected. For countertops, appliances, tables, add 2 ounces of Violet per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow the surface to remain wet for 10 minutes, then remove excess liquid and rinse the surface with potable water. This product cannot be used to clean the following food contact surfaces: utensils, glassware and dishes.

Bactericidal Activity: When diluted at the rate of 2 ounces per gallon of water, Violet exhibits effective, one-step disinfectant activity against the organisms: *Pseudomonas aeruginosa* PRD 10, *Escherichia coli*, *Klebsiella pneumoniae*, *Salmonella schottmuelleri*, *Salmonella enterica*, *Streptococcus salivarius*, *Brevibacterium ammoniagenes*, *Streptococcus faecalis*, *Shigella dysenteriae*, *Enterobacter aerogenes*, *Staphylococcus aureus*, Methicillin resistant *Staphylococcus aureus* (MRSA), Vancomycin intermediate resistant *Staphylococcus aureus* (VISA), *Streptococcus pyogenes* (Clinical-Flesh Eating Strain BIRD M3) and *Klebsiella pneumoniae* New Delhi Metallo-Beta Lactamase (NDM-1) Carbapenem Resistant, *Acinetobacter baumannii*, *Enterococcus faecium*, Vancomycin resistant *Enterococcus faecalis* (VRE) and meets all requirements for hospital use.

Fungicidal Activity: At the 2 ounces per gallon dilution, Violet is also fungicidal against the pathogenic fungi, *Trichophyton mentagrophytes* (causative agent of Athlete's Foot Fungus) (a cause of ringworm) (a cause of ringworm of the foot), when used as directed on hard surfaces found in bathrooms, shower stalls, locker rooms, exercise facilities or other clean, hard, non-porous, surfaces commonly contacted by bare feet. Follow the Disinfection directions.

***virucidal Activity:** Violet, when used on environmental, inanimate, hard, non-porous surfaces at 2 ounces per gallon of water, exhibits effective virucidal activity against Influenza A2/Japan (representative of the common flu virus), Herpes Simplex Type 1 (causative agent of fever blisters), Adenovirus Type 2 (causative agent of upper respiratory infections), Vaccinia virus (representative of the Pox virus group), Human Coronavirus (ATCC VR-740, Strain 229E), Human Immunodeficiency Virus Type I (HIV 1), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Norovirus (Norwalk Virus), Bovine Viral Diarrhea Virus (BVDV), Feline calicivirus (FCV), SARS Associated Coronavirus, Porcine Respiratory & Reproductive Syndrome Virus (PRRSV) (Strain NVSL) and Avian Influenza A. Follow the Disinfection directions. Kills HIV-1, HBV and HCV On Pre-cleaned Environmental Surfaces/objects Previously Soiled With Blood/body Fluids in health care settings (Hospitals, Nursing Homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV). Special Instructions For Cleaning And Decontamination Against HIV-1, HBV and HCV On Surfaces/objects Soiled With Blood/body Fluids. Personal Protection: When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings. Cleaning Procedures: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of Violet. Contact Time: Allow surface to remain wet for 10 minutes.

Deodorization: To deodorize, apply Violet as indicated under the heading DISINFECTION.

01 Chemical Product and Company Identification

Product Name Violet
Product Use Disinfectant Detergent Cleaner
Product Code 3258
For Medical Emergency Call 'Chemtrec' 1-800-424-9300
Supplier's Information Santec Inc.
 1420 East Linden Avenue, Linden NJ 07036
 This product is a registered pesticide. EPA No. 1839-95-84179

02 Hazards Identification

GHS Classification: 1. Skin - Category 2
 2. Eyes - Category 1
GHS Label Element:



Signal Word: Danger
Hazard Statement: May be corrosive to eyes. Causes skin burns. May be harmful if swallowed.
Precautionary Statements: Wear protective gloves, splash goggles, face shield and protective clothing. Wash thoroughly after handling.
Acute Effects
Eyes: May cause irreversible damage.
Skin: Causes skin burns.
Inhalation: Mists and vapors may be irritating to the throat and respiratory tract.
Ingestion: Harmful if swallowed.
Chronic Effects
Carcinogenicity: No known critical effects or critical hazards.
Product /Ingredient Name: Not available.

03 Composition/ Information on Ingredients

Name of Hazardous Ingredients	CAS No.	WT. %
Nonylphenol Ethoxylate	12087-87-0	4.3-4.7
Sodium Carbonate	497-19-8	3
Alkyl Dimethyl Benzyl Ammonium Chloride (C12-18)	68391-01-5	2.25
Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C12-14)	85409-23-0	2.25
Tetrasodium Ethylenediamine Tetraacetate	64-02-8	1

04 First Aid Measures

Eye Contact: Check for and remove any contact lenses. Flush with large quantities of water, holding eyelids open for 15 minutes. Seek medical attention immediately.
Skin Contact: Wash skin with copious amounts of water. If symptoms persist seek medical attention.
Inhalation: Remove to fresh air. Seek medical attention if irritation persists.
Ingestion: Do not induce vomiting. Drink copious amounts of water. Seek medical attention immediately.

05 Fire Fighting Measures

Suitable Fire Extinguishing Media: Use water spray, fog or foam
Specific Hazards Arising from the Chemical: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous Thermal Decomposition Products: Carbon monoxide, carbon dioxide, ammonia, oxides of nitrogen.
Specific Fire-Fighting Methods: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Specific Protective Equipment for Fire-Fighters: Fire-Fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

06 Accidental Release Measures

Spill Clean Up: Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move Containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

07 Handling and Storage

Handling: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Wash thoroughly after handling.

Storage: Store between the following temperatures: 4.44 to 48.9°C (40 to 120°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

08 Exposure Controls/ Personal Protection

Ingredient Name

Sodium Carbonate

Exposure Limits

OSHA PEL TWA 5 mg/m³, form: dust

Personal Protective Equipment (PPE)

Eyes: Safety glasses, splash goggles.

Skin: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Body: For prolonged or repeated handling, use gloves. Nitrile gloves. Rubber gloves. Neoprene gloves.

Respiratory: Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

09 Physical and Chemical Properties

Physical State

Clear liquid

Color

Violet

Odor

Lemony

pH

11.5

Flash point

None

Explosion limits

Not available

Flammability (solid, gas)

Not available

Melting point

Not available

Boiling point

Not available

Evaporation rate (butyl acetate = 1)

Not available

Vapor pressure

Not available

Vapor density

Not available

Relative density

1.01 (Water = 1)

Solubility

Easily soluble in the following materials: cold water and hot water

Partition coefficient n-octano/water

Not available

Auto-ignition temperature

Not available

Decomposition temperature

Not available

Odor threshold

Not available

Viscosity

Kinematic (room temperature): < 20 (CPS)

10 Stability and Reactivity

Stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Keep away from strong oxidizing agents.

Materials to avoid: Strong oxidizing agents, anionic surfactants.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition should not be produced.

11 Toxicological Information

Product /Ingredient Name	Result	Species	Dose
Nonylphenol Ethoxylate	LD50 Oral	Rat	960-3980 mg/kg
Sodium Carbonate	LD50 Oral	Rat	4090 mg/kg
Alkyl Dimethyl Benzyl Ammonium Chloride (C12-18)	LD50 Oral	Rat	> 2500 mg/kg
Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C12-14)	LD50 Oral	Rat	> 2500 mg/kg
Tetrasodium Ethylenediamine Tetraacetate	LD50 Oral	Rat	3030 mg/kg

12 Ecological Information

N/A

13 Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

14 Transport Information

Regulatory Information	UN Number	Proper Shipping Name	Classes	PG*	Label
DOT Classification	not regulated	-	-		

Note: DOT classification applies to most package sizes. For specific container size classifications or size exceptions, refer to the bill of lading with your shipment.

PG*: Packing Group

15 Regulatory Information

U.S. Federal Regulations

TSCA 8(b) inventory: All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313	Product name	CAS number	Concentration
Form R-Reporting requirements	No listed substance		

16 Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of Issue: 05/31/2018

*Hazard Determination System (HDS):

Health	2
Reactivity	0
Flammability	0

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimum hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.

VIOLET



Violet is an EPA registered disinfectant cleaner, (EPA Reg. 1839-95-84179). It is a phosphate free formulation designed to provide effective cleaning, deodorization, and disinfection specifically for hospitals, nursing homes, colleges, food processing plants, food service establishments, office buildings, hotels and lodging establishments where housekeeping is of prime importance in controlling cross contamination.

Violet is EPA List N approved for 2019-nCoV/COVID-19 (Human Coronavirus). Violet has demonstrated effectiveness against viruses similar to **2019 Novel Coronavirus (Human Coronavirus (Strain 229E))** on hard, non-porous surfaces. Therefore, **Violet** can be used against **2019 Novel Coronavirus** when used in accordance with the directions for use against **Human Coronavirus** on hard, non-porous surfaces. **Note:** Dwell time for disinfecting equals ten minutes. Refer to the **CDC** website at <https://wwwnc.cdc.gov/travel/notices/alert/novel-coronaviruschina> for additional information.*

Features Concentrated – For most applications, effective at 1 to 64 dilution (2 oz. per gallon). An excellent all-around cleaner while simultaneously disinfecting. Powerful bactericide and virucide at 2 oz. per gallon – see attached list for impressive list of bacteria and viruses **Violet** effective against. Leaves behind a unique lemon scent. Excellent on all floors including standard commercial vinyl tiles (VCT).

Organism	Kill Time	Organism	Kill Time
Acinetobacter baumannii (ATCC 19606)	10 Min	Human Immunodeficiency Virus Type 1 (HIV-1)	10 Min
Adenovirus Type 2	10 Min	Influenza A2/Japan	10 Min
Aspergillus niger (ATCC 6275)	10 Min	Klebsiella pneumoniae (ATCC 4352)	10 Min
Avian Influenza A Virus (H3N2) (Avian Reassortant) (VR-2072)	10 Min	Klebsiella pneumoniae New Delhi Metallo-Beta Lactamase (NDM-1) Carbapenem Resistant	10 Min
Avian Influenza Virus Type A (Turkey/WIS/66) (H9N2)	10 Min	Methicillin resistant Staphylococcus aureus (MRSA) (ATCC 33593)	10 Min
Brevibacterium ammoniagenes (ATCC 6871)	10 Min	Norovirus (Norwalk Virus)	10 Min
Bovine Viral Diarrhea Virus (BVDV)	10 Min	Pandemic 2009 H1N1 Influenza A Virus	10 Min
Canine Adenovirus	10 Min	Porcine Parvovirus	10 Min
Canine Coronavirus	10 Min	Porcine Respiratory & Reproductive Syndrome Virus (PRRSV)	10 Min
Canine Parainfluenza Virus	10 Min	Pseudomonas aeruginosa (ATCC15442)	10 Min
Canine Parvovirus	10 Min	Salmonella enterica (ATCC 10708)	10 Min
Enterobacter aerogenes (ATCC 13048)	10 Min	Salmonella schottmuelleri (ATCC 8759)	10 Min
Enterococcus faecium (ATCC 19434)	10 Min	SARS Associated Coronavirus	10 Min
Escherichia coli (ATCC 1129)	10 Min	Shigella dysenteriae (ATCC 12180)	10 Min
Feline Calicivirus (FCV)	10 Min	Staphylococcus aureus (ATCC 6538)	10 Min
Feline Coronavirus	10 Min	Streptococcus faecalis (ATCC 10541)	10 Min
Feline Panleukopenia	10 Min	Streptococcus pyogenes (Clinical - Flesh Eating Strain BIRD M3)	10 Min
Feline Picornavirus	10 Min	Streptococcus salivarius (ATCC 9222)	10 Min
Feline Rhinotracheitis	10 Min	Trichophyton mentagrophytes (ATCC 9533)	10 Min
Hepatitis B virus (HBV)	10 Min	Vaccinia Virus	10 Min
Hepatitis C virus (HCV)	10 Min	Vancomycin intermediate resistant Staphylococcus aureus (VISA)	10 Min
Herpes Simplex Type 1	10 Min	Vancomycin resistant Enterococcus faecalis (VRE) (ATCC 51299)	10 Min
Human Coronavirus (VR-740)	10 Min		