



MICRO-CHEM PLUS

Detergent Disinfectant Cleaner

DESCRIPTION

This product is a phosphate free formulation designed to provide effective cleaning, deodorization and disinfection specifically for hospitals, nursing homes, schools, food processing plants, food service establishments, transportation terminals, automotive garages, office buildings, manufacturing facilities, lodging establishments, retail businesses and athletic/recreational facilities where housekeeping is of prime importance in controlling the hazard of cross contamination. This product cleans, deodorizes and disinfects all hard non-porous household surfaces. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling. This product is non-abrasive cleaner for showers, tubs, shower doors, vinyl and plastic shower curtains, fixtures and toilet bowls. This product is an economical concentrate that can be used with a mop and bucket, hand pump trigger sprayer, low pressure coarse sprayer or sponge. Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu).

PRODUCT FEATURES / BENEFITS

- Hospital grade / Insures complete broad spectrum disinfecting
- Dual-quat / Residual bacteriocidal action
- Kills AIDS virus / Reduces danger of contamination from hard surfaces
- Biodegradable, phosphate free / Environmentally responsible
- Multiple applications / Variety of uses for both institutional and industrial areas

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. This product is not for use on critical and semi-critical medical devices surfaces. **DISINFECTION** - To disinfect inanimate, hard, non-porous surfaces add 2 ounces of this product 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 toilet bowls:** flush toilet, add 2 ounces of this product directly to the bowl water. Swab the bowl completely using a scrub brush or toilet mop, making sure to get under the rim. Let stand for 10 minutes and flush. **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, storage areas, add 2 ounces of this product 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 and rinse the surface 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 this product 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, this product 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), Acinetobacter baumannii, Eterococcus faecium, Vancomycin resistant Enterococcus faecalis (VRE), Vancomycin intermediate resistant Staphylococcus aureus (VISA) and Streptococcus pyogenes (Clinical-Flesh Eating Strain BIRD M3) and meets all requirements for hospital use. **MILDEWSTAT** - To control mold and mildew on pre-cleaned, hard, non-porous surfaces add 2 ounces of this product per gallon of water. Apply solution with a cloth, mop, sponge, hand pump

trigger sprayer or low pressure coarse sprayer making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears. **FUNGICIDAL ACTIVITY** - At the 2 ounces per gallon dilution, this product is also fungicidal against the pathogenic fungi, Trichophyton mentagrophytes (causative agent of Athlete's Foot Fungus) (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** - This product 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), Bovine Viral Diarrhea Virus (BVDV), Human Coronavirus, Human Immunodeficiency Virus Type 1 (HIV-1), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Norovirus (Norwalk Virus), Feline calicivirus (FCV), SARS Associated Coronavirus, Porcine Respiratory & Reproductive Syndrome Virus (PRRSV) 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 this product. **CONTACT TIME:** Allow surface to remain wet for 10 minutes. **DISPOSAL OF INFECTIOUS MATERIALS:** Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal. **EFFICACY TESTS HAVE DEMONSTRATED THAT THIS PRODUCT IS AN EFFECTIVE BACTERICIDE, FUNGICIDE, AND VIRUCIDE, IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM).** **DEODORIZATION** - To deodorize, apply this product as indicated under the heading DISINFECTION. **Cleaning/Deodorizing Directions:** Add 1 to 2 ounces per gallon of water to clean and deodorize windows, mirrors and glass surfaces. **Use a coarse spray device.** Spray 6-8 inches from surface, rub with sponge or cloth. Do not breathe spray mist.

SPECIFICATIONS

Color	Yellow
Odor	Citrus
Active Ingredients	Dual Quaternary
pH Concentrate	11.8 ± 0.3
pH (1:64)	10.9 ± 0.3
Specific Gravity (g/cc).....	1.04 ± 0.01
Density (lbs/gal)	8.7 ± 0.1
Upper Cloud	> 130°F
Lower Cloud	< 33°F

Viscosity (cps)	15
Cleaning Agents	All Synthetic
Virucidal	Yes
Fungicidal	Yes
Bactericidal	Yes
Mildewstat	Yes
Cleaning	Excellent
Deodorizing	Excellent
Disinfecting	Broad Spectrum
Shelf Life	1 year minimum in original unopened container

SAFETY INFORMATION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, rubber gloves, and protective clothing. Harmful if swallowed. Remove contaminated clothing

and wash before reuse. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid inhalation of spray or mist.

Registered with the Environmental Protection Agency.
Authorized by USDA for use in federally inspected meat and poultry plants.
For Sale To, Use and Storage By Service Personnel



DISINFECTANT



World Class Cleaning Solutions®

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1-800-NAT-CHEM • 215-922-1200 • FAX: 215-922-5517
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TDS-0255-0615


SAFETY DATA SHEET

Section 1 - Identification

Product Identifier	MICRO-CHEM PLUS Detergent Disinfectant Cleaner
Other means of identification	0255
Recommended use	Disinfectant.
Recommended restrictions	EPA Registered Product. For commercial and industrial use only.
Manufacturer / Importer / Supplier / Distributor Information	
Company Name	National Chemical Laboratories of PA, Inc.
Address	401 N. 10th Street - Philadelphia, PA 19123
Telephone	1 (215) 922-1200
Supplier Email	info@nclonline.com
Contact	CHEM-TEL
Emergency Phone	1 (800) 255-3924

Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

	Classification	Category
Physical Hazards	Not Classified	
Health Hazards	Serious eye damage/eye irritation	1
	Skin corrosion/irritation	2
Environmental Hazards		Category
	Hazardous to the aquatic environment, acute hazard.	1
	Hazardous to the aquatic environment, long-term hazard.	2
OSHA defined hazards	Not Classified.	
Label Elements		
Hazard Symbol		
Signal Word	Danger	
Hazard Statement	Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves. Wear eye/face protection.	
Response	Collect spillage. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	

Section 3 - Composition/Information on ingredients

Mixture			
Hazardous Components	Ingredient Name	CAS #	%
	4-Nonylphenol, branched, ethoxylated	127087-87-0	1 - 5
	Sodium Carbonate	497-19-8	1 - 5
	_Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alternate CAS 68956-79-6)	85409-23-0	1 - 3
	_Alkyl Dimethyl Benzyl Ammonium Chloride (C12-C18)	68391-01-5	1 - 3
Composition Comments	Components not listed are either non-hazardous or are below reportable limits.		

Section 4 - First-aid Measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing

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Eye contact	and wash before reuse. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most Important symptoms /effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment	If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.
General Information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 - Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment /instructions	Move containers from fire area if you can do so without risk.
General fire hazards	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific Methods	No unusual fire or explosion hazards noted.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures.	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Section 7 - Handling and storage

Precautions for safe handling	Do not get this material in contact with eyes. Avoid contact with skin. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Section 8 - Exposure control/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	
Hand protection	Wear protective gloves.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

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General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Thin Liquid.
Color	Yellow, clear.

Odor Citrus.

Odor threshold Not available.

pH 11.8

Melting point/freezing point > 32 °F (> 0 °C)

Initial boiling point and boiling range > 212 °F (> 100 °C)

Flash point > 201 °F (> 93.9 °C) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.04 ± 0.01 g/ml

Relative density temperature 75 °F (23.89 °C)

Solubilities Complete.

Partition Coefficient n-octanol/water Not available

Auto-ignition temperature Not Available

Decomposition temperature Not Available

Viscosity <10 cSt

Viscosity Temperature 75 °F (23.89 °C)

Section 10 - Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to Avoid Avoid temperatures exceeding the flash point. Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Anionic surfactants

Hazardous Decomposition Products Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion	May be harmful if swallowed.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Information on toxicological effects.

Acute toxicity

Components	Level	Type	Code	Species	Results
_Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alternate CAS 68956-79-6) (CAS 85409-23-0)	Acute	Dermal	LD50	Rabbit	> 2000 mg/kg
	Acute	Inhalation	LC50		> 20 mg/l
_Alkyl Dimethyl Benzyl Ammonium Chloride (C12-C18) (CAS 68391-01-5)	Acute	Dermal	LD50	Rabbit	> 2000 mg/kg
	Acute	Dermal	LD50	Rat	1420 mg/kg

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Sodium Carbonate (CAS 497-19-8)	Acute	Inhalation	LC50		> 20 mg/l
	Acute	Oral	LD50	Rat	500 - 5000 mg/kg
	Acute	Inhalation	LC50	Rat	2300 mg/m ³ , 2 Hours
Skin corrosion/irritation	Causes skin irritation.				
Serious eye damage/ eye irritation	Causes serious eye damage.				
Respiratory sensitization	Not available.				
Skin sensitization	This product is not expected to cause skin sensitization.				
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.				
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.				
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.				
Specific target organ toxicity - single exposure	Not applicable.				
Specific target organ toxicity - repeated exposure	Not applicable.				
Aspiration hazard	Not likely, due to the form of the product.				

Section 12 - Ecological Information

Ecotoxicity	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.				
Component(s)					
Sodium Carbonate, 497-19-8					
Aquatic					
Acute	Crustacea	EC50	Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/l, 48 hours	
	Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/l, 96 hours	
Persistence and degradability	No data is available on the degradability of this product.				
Bioaccumulative potential	No data available.				
Partition coefficient n-octanol / water log (Kow)					
Components			Results		
4-Nonylphenol, branched, ethoxylated (CAS 127087-87-0)			2.1 - 3.4 (Calculated)		
Mobility in soil	No data available.				
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.				

Section 13 - Disposal considerations

Disposal instructions	<p>PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.</p> <p>CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill container. Clean container promptly after emptying. (For containers 5 gallons or less):</p> <p>Triple rinse as follows: Fill container 1/4 full with water and recap. Agitate vigorously. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.</p> <p>(For containers greater than 5 gallons):</p> <p>Triple rinse as follows: Fill container 1/4 full with water. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.</p>
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport information

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code	This substance/mixture is not intended to be transported in bulk.

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Section 15 - Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This product is a U.S. EPA registered pesticide.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D) Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories Immediate Hazard Yes

Delayed Hazard No

Fire Hazard No

Pressure Hazard No

Reactivity Hazard No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

US.Massachusetts RTK - Substance List Not regulated.

US.New Jersey Worker and Community Right-to-Know Act Not listed.

US.Pennsylvania RTK - Hazardous Substances Not listed.

US.Rhode Island RTK Not regulated.

US - California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins

International Inventories

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances	No
Unites States Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Other information, including date of preparation or last version

Issue date 8/9/2016

Version # 02

Disclaimer The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

This product is a phosphate free formulation designed to provide effective cleaning, deodorization and disinfection specifically for hospitals, nursing homes, schools, food processing plants, food service establishments, transportation terminals, automotive garages, office buildings, manufacturing facilities, lodging establishments, retail businesses and athletic/recreational facilities where housekeeping is of prime importance in controlling the hazard of cross contamination. This product cleans, deodorizes and disinfects all hard non-porous household surfaces. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling. This product is non-abrasive cleaner for showers, tubs, shower doors, vinyl and plastic shower curtains, fixtures and toilet bowls. This product is an economical concentrate that can be used with a mop and bucket, hand pump trigger sprayer, low pressure coarse sprayer or sponge. Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu).

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

This product is not for use on critical and semi-critical medical devices surfaces.

DISINFECTION - To disinfect inanimate, hard, non-porous surfaces add 2 ounces of this product 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 toilet bowls:** flush toilet, add 2 ounces of this product directly to the bowl water. Swab the bowl completely using a scrub brush or toilet mop, making sure to get under the rim. Let stand for 10 minutes and flush. **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, storage areas, add 2 ounces of this product 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 this product 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, this product 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), Acinetobacter baumannii, Enterococcus faecium, Vancomycin resistant Enterococcus faecalis (VRE), Vancomycin intermediate resistant Staphylococcus aureus (VISA) and Streptococcus pyogenes (Clinical-Flesh Eating Strain BIRD M3) and meets all requirements for hospital use. **MILDEWSTAT** - To control mold and mildew on pre-cleaned, hard, non-porous surfaces add 2 ounces of this product per gallon of water. Apply solution with a cloth, mop, sponge, hand pump trigger sprayer or low pressure coarse sprayer making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears. **FUNGICIDAL ACTIVITY** - At the 2 ounces per gallon dilution, this product is also fungicidal against the pathogenic fungi, Trichophyton mentagrophytes (causative agent of Athlete's Foot Fungus) (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** - This product 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



World Class Cleaning Solutions®



Disinfectant

Micro-Chem Plus™

Detergent / Disinfectant

CLEANER • DETERGENT • DEODORIZER • MILDEWSTAT (on hard non-porous, inanimate surfaces)

- DISINFECTANT • FUNGICIDE (against Pathogenic fungi) • *VIRUCIDE
- Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu)

ACTIVE INGREDIENTS:

Alkyl (60% C14, 30% C16, 5% C12, 5% C18)	
dimethyl benzyl ammonium chlorides.....	2.25%
Alkyl (68% C12, 32% C14)	
dimethyl ethylbenzyl ammonium chlorides.....	2.25%
INERT INGREDIENTS.....	95.50%
TOTAL	100.00%

EPA REG. NO. 1839-95-2296 EPA EST. NO. 2296-PA-1

KEEP OUT OF REACH OF CHILDREN DANGER

See side panel of label for additional precautionary statements.

NET CONTENTS: 1 GALLON / 3.79 LITERS

National Chemical Laboratories, Inc.

401 N. 10th Street • Philadelphia, PA 19123 USA • (800) 628-2436

Product No.: 0255

agent of upper respiratory infections), Vaccinia virus (representative of the Pox virus group), Bovine Viral Diarrhea Virus (BVDV), Human Coronavirus, Human Immunodeficiency Virus Type 1 (HIV-1), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Norovirus (Norwalk Virus), Feline calicivirus (FCV). SARS Associated Coronavirus, Porcine Respiratory & Reproductive Syndrome Virus (PRRSV) 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 this product. **CONTACT TIME:** Allow surface to remain wet for 10 minutes. **DISPOSAL OF INFECTIOUS MATERIALS:** Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal. **EFFICACY TESTS HAVE DEMONSTRATED THAT THIS PRODUCT IS AN EFFECTIVE BACTERICIDE, FUNGICIDE, AND VIRUCIDE, IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM). DEODORIZATION** - To deodorize, apply this product as indicated under the heading DISINFECTION. **Cleaning/Deodorizing Directions:** Add 1 to 2 ounces per gallon of water to clean and deodorize windows, mirrors and glass surfaces. **Use a coarse spray device.** Spray 6-8 inches from surface, rub with sponge or cloth. Do not breathe spray mist.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, rubber gloves, and protective clothing. Harmful if swallowed. Remove contaminated clothing and wash before reuse. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

PESTICIDE STORAGE - Store in a dry place no lower in temperature than 50° F or higher than 120° F. **CONTAINER DISPOSAL** - Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.