



# SAFETY DATA SHEET

Adams  
KSD  
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ARRAY ULTIMATE SANITIZER

SDS 200562665U

## 1. IDENTIFICATION

**PRODUCT NAME:** ARRAY ULTIMATE SANITIZER  
**RECOMMENDED USE:** QUAT DISINFECTANT / SANITIZER  
**RESTRICTIONS ON USE:** DO NOT USE IN A MANNER INCONSISTENT WITH THE LABEL  
**LABEL BRAND:** ARRAY  
**SDS 200562665U REORDER No. 246208, 162092 CODE 5617966, 100867457**

**GORDON FOOD SERVICE** 1300 GEZON PARKWAY SW WYOMING, MI 48059 USA  
**MEDICAL EMERGENCY:** 1-866-923-4913 USA  
**SPILL EMERGENCY:** 1-800-451-8346 USA  
**PRODUCT INFORMATION:** 1-800-968-6474 USA (8 A.M. TO 5 P.M. EST MONDAY TO FRIDAY)  
**INTERNET ADDRESS:** SFS.COM

## 2. HAZARD(S) IDENTIFICATION

**CLASSIFICATION:** SKIN CORROSION (CATEGORY 1C),  
 EYE DAMAGE (CATEGORY 1)



**LABEL ELEMENTS**  
**SIGNAL WORD:** DANGER  
**PICTOGRAMS:** CORROSION

**HAZARD STATEMENTS:** CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE.  
**PRECAUTIONARY STATEMENTS:** Wear chemical-splash safety goggles, chemical-resistant protective gloves and protective footwear. Avoid contact with eyes, skin and clothing. Do not breathe vapors or mists. Do not eat, drink, or smoke when using this product. Wash hands and affected areas thoroughly after handling. Mix only with water. Do not mix with chlorine bleach, acids or any other chemical. Can react to release hazardous gases.

**FIRST AID:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If conscious, dilute by drinking up to a cupful of milk or water as tolerated. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**START FIRST AID. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.**  
**EMERGENCY TELEPHONE:** 1-866-923-4913

**Storage:** Store tightly closed only in original corrosive-resistant plastic container. Store locked up.  
**Disposal:** Dispose of contents in accordance with all federal, state and local applicable laws and regulations.  
**KEEP OUT OF REACH OF CHILDREN. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.**  
**HAZARDS NOT OTHERWISE CLASSIFIED:** Not applicable.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)	CAS #	WEIGHT %
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE	32426-11-2	2.30
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7173-51-5	1.10
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	5638-94-3	1.10
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68424-85-1	3.00
ETHYL ALCOHOL	64-17-5	1.13

**STATE RIGHT TO KNOW:** SEE SECTION 15 FOR STATE RTK CHEMICAL NAMES IN MIXTURE.

## 4. FIRST-AID MEASURES

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**IF IN EYES:** RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING FOR AT LEAST 15 MINUTES.  
**IF ON SKIN (OR HAIR):** TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER FOR AT LEAST 15 MINUTES. WASH CONTAMINATED CLOTHING BEFORE REUSE.  
**IF SWALLOWED:** RINSE MOUTH. DO NOT INDUCE VOMITING. IF CONSCIOUS, DILUTE BY DRINKING UP TO A CUPFUL OF MILK OR WATER AS TOLERATED. IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.  
**START FIRST AID. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.**  
**EMERGENCY TELEPHONE:** 1-866-923-4913

**MOST IMPORTANT SYMPTOMS / EFFECTS:** CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. MAY CAUSE BLINDNESS WITHOUT IMMEDIATE FIRST AID. HARMFUL IF SWALLOWED. CAUSES BURNS AND SERIOUS DAMAGE TO MOUTH, THROAT AND STOMACH. CORROSIVE TO ALL BODY TISSUES.

**MEDICAL CONDITIONS AGGRAVATED:** NONE KNOWN.

**NOTE TO PHYSICIAN:** CALL 1-866-923-4913 FOR EXPOSURE MANAGEMENT ASSISTANCE.

## 5. FIRE-FIGHTING MEASURES

**CHEMICAL HAZARDS:** CORROSIVE. NON-FLAMMABLE.  
**COMBUSTION PRODUCT HAZARDS:** OXIDES OF CARBON AND OTHER FUMES.  
**METHODS:** SELECT EXTINGUISHER AND METHODS BASED ON FIRE SIZE AND TYPE.  
**EQUIPMENT:** WEAR SCBA AND FULL PROTECTIVE GEAR AS CONDITIONS WARRANT.  
**NFPA RATING:** HEALTH-3/FLAMMABILITY-0/INSTABILITY-0/SPECIAL HAZARD-N.A.P.  
**SUITABLE EXTINGUISHERS:** WATER, DRY CHEMICAL, CO2 OR FOAM SUITABLE FOR FIRE.  
**UNSUITABLE EXTINGUISHERS:** NO RESTRICTIONS BASED ON CHEMICAL HAZARDS.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** EVACUATE UNPROTECTED PERSONNEL FROM AREA.  
**WEAR PERSONAL PROTECTION INCLUDING RUBBER BOOTS.** SEE SECTION 8. VENTILATE AREA IF NEEDED. BE CAREFUL NOT TO SLIP. WASH THOROUGHLY AFTER CLEAN-UP.  
**ENVIRONMENTAL PRECAUTIONS:** PREVENT SPILL FROM ENTERING DRAIN, STORM SEWER OR SURFACE WATERWAY. PREVENT WATER AND SOIL CONTAMINATION.  
**CLEAN-UP METHODS:** SMALL SPILLS MAY BE WIPED UP AND RINSED WITH WATER. FOR LARGER SPILLS, DIKE TO CONTAIN. PUMP TO LABELED CONTAINER OR ABSORB SPILLAGE AND SCOOP UP WITH INERT ABSORBENT MATERIAL. AFTER SPILL COLLECTION, RINSE AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES.

## 7. HANDLING AND STORAGE

**HANDLING:** FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES. AVOID INHALATION, INGESTION, AND CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT TASTE OR SWALLOW. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE REUSE. PRODUCT RESIDUE MAY REMAIN IN EMPTY CONTAINERS. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.  
**STORAGE:** STORE TIGHTLY CLOSED ONLY IN ORIGINAL CORROSIVE-RESISTANT PLASTIC CONTAINER. STORE LOCKED UP. STORE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT. PROTECT FROM FREEZING. ROTATE STOCK REGULARLY. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF REACH OF CHILDREN.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**EXPOSURE LIMITS:** OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE = NONE  
 DIDECYL DIMETHYL AMMONIUM CHLORIDE = NONE, DIOCTYL DIMETHYL AMMONIUM CHLORIDE = NONE  
 ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE = NONE  
 ETHYL ALCOHOL = 1000 PPM TWV (ACGIH/OSHA)  
**ENGINEERING CONTROLS:** GENERAL ROOM VENTILATION IS TYPICALLY ADEQUATE. PROVIDE SUITABLE FACILITIES FOR QUICK DRENCHING OR FLUSHING OF THE EYES AND BODY IN CASE OF CONTACT.

### PERSONAL PROTECTION

**EYES:** SAFETY GOGGLES (INDIRECT-VENTED OR NON-VENTED) AND AN EYE-WASH STATION.  
**HANDS:** CHEMICAL-RESISTANT PROTECTIVE GLOVES (RUBBER OR NEOPRENE).  
**RESPIRATORY:** SUITABLE RESPIRATOR IF MISTS/VAPORS ARE NOT CONTROLLED BY VENTILATION.  
**FEET:** RUBBER BOOTS DURING SPILL CLEAN-UP AND WHEN EXPOSURE IS POSSIBLE.  
**BODY:** RUBBER FULL-COVER PROTECTIVE CLOTHING WHEN EXPOSURE IS POSSIBLE.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** RED LIQUID  
**ODOR:** NONE  
**pH CONCENTRATE:** 7.0  
**pH @ 2500 PPM SOLUTION:** N.A.V.  
**pH @ USE DILUTION:** N.A.V.  
**PHYSICAL STATE:** LIQUID  
**RELATIVE DENSITY (WATER):** 0.995  
**SOLUBILITY (WATER):** COMPLETE  
**VAPOR PRESSURE:** N.A.V.  
**VAPOR DENSITY:** N.A.V.  
**VISCOSITY:** NON-VISCOUS

**AUTO-IGNITION TEMPERATURE:** N.A.V.  
**DECOMPOSITION TEMPERATURE:** N.A.V.  
**EXPLOSIVE LIMITS (LEL/UEL):** NONE  
**EVAPORATION RATE:** N.A.V.  
**FLAMMABILITY (SOLID, GAS):** N.A.P.  
**FLASH POINT:** NONE  
**INITIAL BOILING POINT/RANGE:** N.A.V.  
**MELTING POINT/FREEZING POINT:** N.A.V.  
**ODOR THRESHOLD:** N.A.V.  
**PARTITION COEFF. (N-OCTANOL/WATER):** N.A.V.  
**OTHER:** N.A.V.

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** MIXING WITH INCOMPATIBLES CAN RELEASE HEAT + HAZARDOUS GASES.  
**CHEMICAL STABILITY:** STABLE.  
**POSSIBILITY OF HAZARDOUS REACTIONS:** SEE REACTIVITY. WILL NOT POLYMERIZE.  
**CONDITIONS TO AVOID:** TEMPERATURES BELOW 35°F (1.8°C) OR ABOVE 120°F (49°C).  
**MATERIALS TO AVOID:** BLEACH, METAL AND OTHER CLEANERS. MIX ONLY WITH WATER.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** NONE UNDER NORMAL CONDITIONS.

## 11. TOXICOLOGICAL INFORMATION

**ROUTES OF EXPOSURE:** EYES, SKIN, INGESTION, INHALATION.  
**INFORMATION ON ROUTES OF EXPOSURE:** NO LC50 TEST DATA ON MIXTURE.  
**ACUTE EFFECTS / SYMPTOMS:** CORROSIVE TO ALL BODY TISSUES.  
**EYES:** CAUSES SERIOUS EYE DAMAGE. MAY CAUSE PAIN, REDNESS AND WATERING.  
**SKIN:** CAUSES SEVERE SKIN BURNS. MAY CAUSE DELAYED PAIN, REDNESS AND BLISTERING.  
**INGESTION:** CAUSES BURNS AND SERIOUS DAMAGE TO MOUTH, THROAT AND STOMACH.  
**INHALATION:** MAY CAUSE CORROSIVE EFFECTS TO NOSE, THROAT, AND RESPIRATORY SYSTEM.  
**CHRONIC / OTHER EFFECTS:** NO REPORTABLE GERM CELL MUTAGENS, SKIN SENSITIZERS, RESPIRATORY SENSITIZERS, REPRODUCTIVE TOXINS OR ASPIRATION HAZARDS.  
**SPECIFIC TARGET ORGANS (SINGLE/REPEATED):** NONE KNOWN.  
**NUMERICAL MEASURES OF TOXICITY:** ACUTE ORAL LD50 (RAT) = ABOVE 2000 MG / KG  
**CARCINOGENS:** NO REPORTABLE ACGIH, IARC, NTP, OR OSHA CARCINOGENS.

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## 12. ECOLOGICAL INFORMATION

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**ECOTOXICITY / CHEMICAL FATE:** NOT AVAILABLE.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** DISPOSE OF CONTENTS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL APPLICABLE LAWS AND REGULATIONS.  
**STORAGE AND DISPOSAL:** Do not contaminate water, food or feed by storage or disposal.  
**RESIDUE REMOVAL:** Triple rinse as follows: Fill the container ¼ full with water and recap. Agitate vigorously and drain 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat two more times. Wrap container and put in trash or offer for recycling if available.  
**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.  
**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. Follow Pesticide Disposal instructions.

## 14. TRANSPORT INFORMATION

**DOT / IMDG / TDG:** UN1903, DISINFECTANTS, LIQUID, CORROSIVE, N.O.S. (QUATERNARY AMMONIUM CHLORIDE), 8, III, LTD. QTY.  
**DOT / IMDG / TDG (PACK SIZE OVER 5 L):** UN1903, DISINFECTANTS, LIQUID, CORROSIVE, N.O.S. (QUATERNARY AMMONIUM CHLORIDE), 8, III

## 15. REGULATORY INFORMATION

**EPA CERCLA RC:** NO  
**EPA REGISTERED:** YES (10324-81-45133) This chemical is a pesticide product registered by the environmental protection agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: DANGER. Keep Out of Reach of Children. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse. **PHYSICAL OR CHEMICAL HAZARDS:** Do not use or store near heat or open flame. Do not mix with oxidizers, anionic soaps and detergents.  
**OSHA HAZARDOUS:** YES **PHOSPHORUS CONTENT:** 0.00% **PROPOSITION 65:** NO  
**SARA 311/312 HAZARDS:** ACUTE SARA 313 CHEMICALS: NO  
**STATE RIGHT TO KNOW:** EPA EXEMPT  
**TSCA INVENTORY STATUS:** ALL COMPONENTS ARE LISTED ON THE INVENTORY.  
**VOC:** 1.13% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.

## 16. OTHER INFORMATION

**PREPARATION DATE:** 10-29-18 **PREPARED BY:** RC **REVISED SECTION:** 8  
**ABBREVIATIONS:** N.A.V. = NOT AVAILABLE **N.A.P. = NOT APPLICABLE**

**NOTICE TO READER**  
 THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE FOR EVALUATING ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**ENVIRONMENTAL HAZARD**  
This product is toxic to fish and aquatic invertebrates

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.  
**PESTICIDE STORAGE:** Store only in original container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.  
**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.  
**CONTAINER HANDLING:** Non-Refillable Container. Do not reuse or refill this container. Wrap empty container and put in trash or offer for recycling.

**ACTIVE INGREDIENTS:**

Alkyl (50% C <sub>14</sub> , 40% C <sub>12</sub> , 10% C <sub>16</sub> )	
Dimethyl Benzyl Ammonium Chloride.....	3.0%
Octyl Decyl Dimethyl Ammonium Chloride.....	2.3%
Didecyl Dimethyl Ammonium Chloride.....	1.1%
Diocetyl Dimethyl Ammonium Chloride.....	1.1%
<b>OTHER INGREDIENTS:</b> .....	<b>92.5%</b>
<b>TOTAL:</b> .....	<b>100.0%</b>

**KEEP OUT OF REACH OF CHILDREN  
DANGER PELIGRO**

**FIRST AID**

In case of emergency, call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  
**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
**IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.  
**IF SWALLOWED:** Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice.  
**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.  
**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**DISINFECTION PERFORMANCE IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions) AND NON-MEDICAL FACILITIES (Restaurants, Food Services):** This product kills the following bacteria in 10 minutes at 3.5 oz. per 4.5 gal. of water (450 ppm active) and 5% soil on hard, non-porous surfaces: *Burkholderia cepacia*, *Campylobacter jejuni*, *Clostridium perfringens-vegetative*, *Corynebacterium ammoniagenes*, *Escherichia coli* O157:H7, *Enterococcus faecium* (VRE), *Klebsiella pneumoniae*, *Listeria monocytogenes*, *Pseudomonas aeruginosa*, *Rhodococcus equi*, *Salmonella enterica*, *Salmonella enterica serovar agona*, *Salmonella enterica serovar anatum*, *Salmonella enterica serovar infantis*, *Salmonella enterica serovar Newport*, *Salmonella enterica serovar typhimurium*, *Salmonella typhi*, *Shigella sonnei*, *Staphylococcus aureus*, *Staphylococcus aureus* (MRSA), *Staphylococcus aureus* (CA MRSA), *Streptococcus equi*. **VIRUCIDAL\* PERFORMANCE:** This product kills the following viruses in 10 minutes at 3.5 oz. per 4.5 gal. of water (450 ppm active) and 5% soil on hard, non-porous surfaces: Avian Influenza A (H5N1) Virus, Avian Influenza/Turkey/Wisconsin Virus, Human Coronavirus, Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Type 1 Virus, Herpes Simplex Type 2 Virus, Human Immunodeficiency Virus Type 1<sub>z</sub> (HIV-1), Influenza A (H1N1) Virus, Influenza A2/Hong Kong Virus, Influenza A2/J305 Virus, Norovirus, Vaccinia Virus. **Indicates a 2 minute contact time is required for this claim.** **MILDEWSTATIC PERFORMANCE:** This product controls the following mold in 10 minutes at 3.5 oz. per 4.5 gal. of water (450 ppm active) on hard, non-porous surfaces: *Aspergillus niger*. **FOOD CONTACT SANITIZING PERFORMANCE:** This product is an effective food contact sanitizer in 1 minute at 1.36 oz. per 4 gal. of 500 ppm hard water (200 ppm active) on hard, non-porous surfaces: *Aeromonas hydrophila*, *Campylobacter jejuni*, *Clostridium perfringens-vegetative*, *Escherichia coli* O111:H8, *Escherichia coli* O157:H7, *Escherichia coli* O45:K:H, *Escherichia coli* O103:K:H8, *Escherichia coli* O121:K:H10, *Escherichia coli* O26:H11, *Enterococcus faecalis* Vancomycin Resistant, *Enterobacter sakazakii*, *Listeria monocytogenes*, *Klebsiella pneumoniae*, *Salmonella enterica*, *Salmonella enteritidis*, *Salmonella typhi*, *Shigella dysenteriae*, *Shigella sonnei*, *Staphylococcus aureus*, *Staphylococcus aureus* Methicillin Resistant, *Streptococcus pyogenes*, *Yersinia enterocolitica*. This product is an effective food contact sanitizer in 1 minute at 1 oz. per 4 gal. of 300 ppm hard water (150 ppm active) on hard, non-porous surfaces: *Escherichia coli*, *Staphylococcus aureus*. This product is an effective food contact sanitizer in 1 minute at 2.67 oz. per 4 gal. of 1000 ppm hard water (400 ppm active) on hard, non-porous surfaces: *Escherichia coli*, *Staphylococcus aureus*. **LAUNDRY BACTERIOSTATIC PERFORMANCE:** This product is an effective laundry bacteriostat in 5 minutes at 1.1 oz. per gal. of water against the following organisms: *Corynebacterium ammoniagenes*, *Klebsiella pneumoniae*, *Staphylococcus aureus*. **LAUNDRY SANITIZER PERFORMANCE:** This product is an effective laundry sanitizer in 5 minutes at 1.33 oz. per gal. of 200 ppm hard water against the following organisms: HIV-1\*\*, *Pseudomonas aeruginosa*, *Klebsiella pneumoniae*, *Staphylococcus aureus*, *Staphylococcus aureus* (MRSA). \*\* Indicates a 4 minute contact time is required for this claim.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Before using this product in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected. This product is not for use on medical device surfaces.  
**FOR USE AS A ONE-STEP, GENERAL, HOSPITAL DISINFECTANT, VIRUCIDE\*, CLEANER:** 1. Pre-clean heavily soiled areas. 2. Apply use solution of 3.5 oz. of this product per 4.5 gal. of water (or equivalent use dilution) to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, coarse pump or trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. 3. Treated surfaces must remain wet for 10 minutes. 4. Wipe dry with a clean cloth or allow to air dry. 5. Prepare a fresh solution daily or when visibly dirty.  
**\*KILLS HIV, HBV AND HCV ON PRE-CLEANED HARD, NON-POROUS SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of hard, non-porous 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), 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: Wear protective latex gloves, gowns, masks and eye protection. Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from hard, non-porous surfaces and objects before application of this product. Disposal of Infectious Materials: Blood and other body fluids, cleaning materials and clothing must be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal. Contact Time: Allow hard, non-porous surface to remain wet for 2 minutes to kill HIV and for 10 minutes to kill all other viruses and bacteria listed on the label.  
**FOOD CONTACT SANITIZING DIRECTIONS:** Prior to application, remove gross food particles and soil by a pre-flush or pre-scrape and when necessary, presoak. Then thoroughly wash or flush objects with a good detergent or compatible cleaner, followed by a potable water rinse before applications of the sanitizing solution.  
**FOOD CONTACT SANITIZING PERFORMANCE FOR PUBLIC EATING PLACES, DAIRY PROCESSING EQUIPMENT AND FOOD PROCESSING EQUIPMENT, UTENSILS AND OTHER HARD, NON-POROUS FOOD CONTACT SURFACES IN FOOD PROCESSING LOCATIONS, MEAT PLANTS, DAIRIES, BAKERIES, CANNERIES, BEVERAGE PLANTS, RESTAURANTS AND BARS DIRECTIONS (REGULATED BY 40 CFR 180.940(a)(c)):** Immerse pre-cleaned glassware, dishes, silverware, cooking utensils and other similar size food processing equipment in a solution of 1-2.67 oz. of this product per 4 gal. of water (0.25-0.67 oz. per gal. of water) (150-400 ppm active quat) (or equivalent use dilution) for at least 1 minute. Allow sanitized surfaces to adequately drain before contact with food. Do not rinse. For articles too large for immersing, apply a use solution of 1-2.67 oz. of this product per 4 gal. of water (0.25-0.67 oz. per gal. of water) (150-400 ppm active quat) (or equivalent use dilution) to sanitize hard, non-porous food contact surfaces with a brush, cloth, mop, sponge, auto scrubber, coarse pump or trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Surfaces must remain wet for at least 1 minute. Allow sanitized surfaces to adequately drain before contact with food. Do not rinse. Prepare a fresh solution daily or when visibly dirty. For mechanical application, use solution must not be reused for sanitizing applications.  
**WISCONSIN STATE DIVISION OF HEALTH DIRECTIONS FOR EATING ESTABLISHMENTS:** 1. Scrape and pre-wash hard, non-porous utensils and glasses whenever possible. 2. Wash with a good detergent or compatible cleaner. 3. Rinse with potable water. 4. Sanitize in a solution of 1.36-2.67 oz. of this product per 4 gal. of water (0.34-0.67 oz. per gal. of water) (200-400 ppm active quat) (or equivalent use dilution) of this product. Immerse all utensils for at least 1 minute or for contact time specified by governing sanitary code. 5. Place sanitized utensils on a rack or drain board to air-dry. 6. Prepare a fresh solution daily or when visibly dirty. Note: A clean potable water rinse following sanitization is not permitted under Section HFS 196, Appendix 7-204.11 of the Wisconsin Administrative Code (reference 40 CFR 180.940 (a)).  
**MOLD/MILDEW:** Prepare use solution by adding 3.5 oz. of this product per 4.5 gal. of water, 0.78 oz. of this product per gal. of water or equivalent dilution. Apply use solution to pre-cleaned hard, non-porous surfaces for 10 minutes which will effectively inhibit the growth of mold and mildew and their odors. Repeat treatment every seven days, or more often if new growth appears.  
**ANIMAL PREMISES:** Prior to use of this product, remove all animals and feeds from premises, animal transportation vehicles, and enclosures. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean surfaces with soap or detergent and rinse with water.  
**FOR USE AS AN ANIMAL PREMISE DISINFECTANT:** Apply a use solution of 3.5 oz. of this product per 4.5 gallon of water (or equivalent use dilution) to disinfect hard, non-porous surfaces with a sponge, brush, cloth, by immersion, mechanical spray device, coarse pump or trigger spray device. Immerse all halters and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure in the use solution. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Treated surfaces must remain wet for 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers and other treated equipment which can contact food or water with soap or detergent, and rinse with potable water before reuse.  
**COMMERCIAL AND INSTITUTIONAL LAUNDRY USE:** For residual bacteriostatic activity against gram negative and/or gram positive odor-causing bacteria and/or residual self-sanitizing activity against *Klebsiella pneumoniae* and *Staphylococcus aureus*, use this product as directed. Initial Treatment: Use 13.3 oz. of this product per 100 pounds of fabric (dry weight) (or equivalent use dilution). Dilute the appropriate amount of this product in one to two gal. of water, and then add solution to the wash wheel at the beginning of the final rinse cycle. A minimum rinse cycle time of 5 minutes is required. Repeat Treatment: Follow Initial Treatment directions and re-treat fabric after each washing. **LAUNDRY BACTERIOSTATIC FOR COMMERCIAL, INDUSTRIAL, AND NON-MEDICAL INSTITUTIONAL LAUNDRY APPLICATIONS:** This product provides the fabric with residual bacteriostatic activity against odor causing gram-negative and gram-positive bacteria when added to the final rinse at a rate of 13.3 oz. of this product per 100 lbs. of dry laundry. This product was evaluated against: *Corynebacterium ammoniagenes*, *Klebsiella pneumoniae*, *Staphylococcus aureus*. **LAUNDRY SANITIZER:** When added at the rate of 1.33 oz. of this product per gal. water (16 oz. of this product per 100 lbs. of dry laundry) (or equivalent use dilution) (780 ppm active), this formulation provides sanitization against *Staphylococcus aureus*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, and *Staphylococcus aureus* Methicillin Resistant (MRSA) and is effective against HIV-1 in rinse water up to 200 ppm hard water. **KILLS HIV-1 ON LAUNDRY IN COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL APPLICATIONS.** This product provides virucidal\* activity against HIV-1 on fabrics when presoaked with a 4-minute contact time followed by normal washing in detergent and rinsing at a rate of 16 oz. of this product per 100 lbs. of dry laundry in water hardness up to 200 ppm. **LAUNDRY SANITIZING DIRECTIONS FOR USE:** For sanitizing step, fill washer to low water level with minimum temperature water of 95°F. Using an appropriate dispenser, inject this product into the sanitizing rinse step at the rate of 1.33 oz. of this product per gal. water (16 oz. of this product per 100 lbs. of dry laundry) (780 ppm active) (or equivalent use dilution). Treat the laundry for a minimum of 5 minutes at a minimum temperature of 95°F. Other laundry additives, such as fabric softeners, laundry soaps, starch and sizing must be used per manufacturer's instructions in subsequent rinse cycles after the sanitizing rinse cycle.