



SAFETY DATA SHEET

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TB QUAT DISINFECTANT

SDS 200512711T

1. IDENTIFICATION

PRODUCT NAME: TB QUAT DISINFECTANT
RECOMMENDED USE: DISINFECTANT CLEANER
RESTRICTIONS ON USE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.
LABEL BRAND: ARRAY
SDS 200512711T REORDER No. 703569 CODE 100964276

GORDON FOOD SERVICE 1300 GEZON PARKWAY SW WYOMING, MI 49509 USA
MEDICAL EMERGENCY: 1-866-923-4913 USA
SPILL EMERGENCY: 1-800-451-8348 USA
PRODUCT INFORMATION: 1-800-968-6474 USA (8 A.M. TO 5 P.M. EST MONDAY TO FRIDAY)
INTERNET ADDRESS: GFS.COM

2. HAZARD(S) IDENTIFICATION

CLASSIFICATION: EYE IRRITATION (CATEGORY 2B)

LABEL ELEMENTS

SIGNAL WORD: WARNING

PICTOGRAMS: NONE

HAZARD STATEMENTS: CAUSES EYE IRRITATION.

PRECAUTIONARY STATEMENTS: Avoid contact with eyes, skin, and clothing. Wash hands and affected areas thoroughly after handling.

FIRST AID: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs and persists, get medical attention.

EMERGENCY TELEPHONE: 1-866-923-4913

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 %
DIETHYLENE GLYCOL BUTYL ETHER	112-34-5	8.000
n-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68391-01-5	0.105
n-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDE	68956-79-6	0.105

STATE RIGHT TO KNOW: EPA EXEMPT 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. IF EYE IRRITATION PERSISTS, GET MEDICAL ATTENTION.
IF ON SKIN: WASH WITH PLENTY OF WATER. IF SKIN IRRITATION OCCURS AND PERSISTS, GET MEDICAL ATTENTION.
IF SWALLOWED: RINSE MOUTH. IF CONSCIOUS, DILUTE BY DRINKING UP TO A CUPFUL OF MILK OR WATER AS TOLERATED.
IF INHALED: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.
EMERGENCY TELEPHONE: 1-866-923-4913

MOST IMPORTANT SYMPTOMS / EFFECTS: CAUSES EYE IRRITATION.

MEDICAL CONDITIONS AGGRAVATED: NONE KNOWN.

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

5. FIRE-FIGHTING MEASURES

CHEMICAL HAZARDS: EYE IRRITATION. 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-2/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.
PROTECTIVE FOOTWEAR RECOMMENDED. 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 CONTACT WITH EYES, SKIN AND CLOTHING. TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE. DO NOT TASTE OR SWALLOW. PRODUCT RESIDUE MAY REMAIN ON OR IN EMPTY CONTAINERS. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.
STORAGE: KEEP CONTAINER CLOSED WHEN NOT IN USE. STORAGE 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: n-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE = NONE
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DIETHYLENE GLYCOL BUTYL ETHER = 10 ppm TWA INHALABLE FRACTION AND VAPOR
ENGINEERING CONTROLS: GENERAL ROOM VENTILATION IS TYPICALLY ADEQUATE.

PERSONAL PROTECTION

EYES: PROTECTIVE EQUIPMENT NOT REQUIRED.

HANDS: PROTECTIVE EQUIPMENT NOT REQUIRED.

RESPIRATORY: PROTECTIVE EQUIPMENT NOT REQUIRED.

FEET: PROTECTIVE EQUIPMENT NOT REQUIRED.

BODY: PROTECTIVE EQUIPMENT NOT REQUIRED.

HYGIENE MEASURES: HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: PALE YELLOW LIQUID	AUTO-IGNITION TEMPERATURE: N.A.V.
ODOR: LEMON	DECOMPOSITION TEMPERATURE: N.A.V.
pH CONCENTRATE: ABOVE 11.5	EXPLOSIVE LIMITS (LEL/UEL): NONE
pH @ 2500 PPM SOLUTION: N.A.V.	EVAPORATION RATE: N.A.V.
pH @ USE DILUTION: N.A.V.	FLAMMABILITY (SOLID, GAS): N.A.P.
PHYSICAL STATE: LIQUID	FLASH POINT: NONE
RELATIVE DENSITY (WATER): 1.011	INITIAL BOILING POINT/RANGE: N.A.V.
SOLUBILITY (WATER): COMPLETE	MELTING POINT/FREEZING POINT: N.A.V.
VAPOR PRESSURE: N.A.V.	ODOR THRESHOLD: N.A.V.
VAPOR DENSITY: N.A.V.	PARTITION COEFF. (N-OCTANOL/WATER): N.A.V.
VISCOSITY: NON-VISCOUS	OTHER: N.A.V.

10. STABILITY AND REACTIVITY

REACTIVITY: NO HAZARD.
CHEMICAL STABILITY: STABLE.
POSSIBILITY OF HAZARDOUS REACTIONS: NONE KNOWN. WILL NOT POLYMERIZE.
CONDITIONS TO AVOID: TEMPERATURES BELOW 35°F (1.6°C) OR ABOVE 120°F (49°C).
MATERIALS TO AVOID: DIRECT MIXING WITH OTHER CHEMICALS. 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
EYES: CAUSES EYE IRRITATION. MAY CAUSE DISCOMFORT, REDNESS AND WATERING.
SKIN: MAY BE MILDLY IRRITATING TO SENSITIVE SKIN. MAY CAUSE DRY SKIN.
INGESTION: MAY CAUSE IRRITATION, NAUSEA, VOMITING AND DIARRHEA.
INHALATION: NONE KNOWN.
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 5000 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.
PESTICIDE STORAGE - Store in a dry place no lower in temperature than 50°F or higher than 120°F.
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 - Nonrefillable container. Do not reuse or refill container. Clean container promptly after emptying. Triple rinse as follows: fill container 1/4 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. Offer for recycling or reconditioning, if available. If not available, puncture and dispose in a sanitary landfill.

14. TRANSPORT INFORMATION

DOT / IMDG / IATA / TDG: NOT REGULATED

15. REGULATORY INFORMATION

EPA CERCLA RQ: NO
EPA REGISTERED: YES (70627-2-45133) 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: CAUTION. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.
OSHA HAZARDOUS: YES
PHOSPHORUS CONTENT: 0.00%
PROPOSITION 65: NO
SARA 311/312 HAZARDS: EYE IRRITATION
SARA 313 CHEMICALS: DIETHYLENE GLYCOL BUTYL ETHER
STATE RIGHT TO KNOW: EPA EXEMPT
TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.
VOC: 0.013% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.

16. OTHER INFORMATION

PREPARATION DATE: 6-26-19 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.

Reference Sheet

TB QUAT DISINFECTANT EPA REG. NO. 70627-2-45133

This product is designed specifically as a general non-acid cleaner and disinfectant for use in hospitals, nursing homes, and hotels. It is formulated to disinfect hard non-porous environmental surfaces such as walls, sink tops, tables, chairs, telephones, glazed ceramic tile in bathrooms, shower stalls, bathtubs, and cabinets. May be used in the kitchen on counters, sinks, appliances, and stovetops. A rinse with potable water is required for surfaces in direct contact with food. Do not use on eating utensils, plates or glasses.

When used as directed, this product is highly effective against a wide variety of pathogenic microorganisms including bacteria, antibiotic resistant bacteria, viruses, fungi, mold and mildew.

Using approved AOAC test methods under Good Laboratory Practices, [GLP's], in the presence of 10% serum load and 3 minute contact time (unless otherwise noted); this product kills the following on hard non-porous inanimate environmental surfaces:

Bactericidal Activity: *Pseudomonas aeruginosa* (ATCC 15442), *Staphylococcus aureus* (ATCC 6538), *Salmonella enterica* (ATCC 10708), *Acinetobacter calcoaceticus* (ATCC 23055), *Burkholderia cepacia* (ATCC 25416), formerly known as *Pseudomonas cepacia*, *Brevibacterium ammoniagenes* (ATCC 6872), *Campylobacter fetus* (ATCC 27374), *Campylobacter jejuni* (ATCC 29428), *Citrobacter freundii* (ATCC 8090), *Enterobacter aerogenes* (ATCC 13048), *Enterobacter agglomerans* (ATCC 27155), *Enterococcus faecalis* (ATCC 19433), formerly known as *Streptococcus faecalis*, *Enterococcus hirae* (ATCC 10541), *Escherichia coli* (ATCC 11229), *Escherichia coli* 0157:H7 (ATCC 43890), *Haemophilus influenza* (ATCC 10211), *Klebsiella pneumoniae* (ATCC 13883), *Legionella pneumophila* (ATCC 33153), *Listeria monocytogenes* (ATCC 15313), *Micrococcus luteus* (ATCC 4698), *Morganella morganii* (ATCC 25830), *Neisseria gonorrhoea* (ATCC 43069), *Pasteurella multocida* (ATCC 43137), *Proteus mirabilis* (ATCC 33583), *Proteus vulgaris* (ATCC 13315), *Pseudomonas fluorescens* (ATCC 13525), *Salmonella enteritidis* (ATCC 4931), *Salmonella schottmuelleri* (ATCC 10719), *Salmonella typhi* (ATCC 6539), *Serratia liquefaciens* (ATCC 35551), *Shigella dysenteriae* (ATCC 13313), *Shigella flexneri* (ATCC 9380), *Streptococcus pyogenes* (Necrotizing Fasciitis) - Group A, (clinical isolate) *Vibrio cholera* (ATCC 11623), *Yersinia enterocolitica* (ATCC 23716).

Antibiotic-Resistant Bactericidal Activity: *Enterococcus faecalis* (ATCC 51299, (Resistant to Vancomycin [VRE]), *Staphylococcus epidermidis* (ATCC 51625), (Resistant to Methicillin [MRSE]), *Streptococcus pneumoniae* (Resistant to Penicillin [PRSP]), *Staphylococcus aureus* (ATCC 33591) (Resistant to Methicillin [MRSA]), Community Associated Methicillin Resistant *Staphylococcus aureus* (CA-MRSA), (NRS 384) Genotype USA300, Community Associated Methicillin Resistant *Staphylococcus aureus* (CA-MRSA), (NRS 123) Genotype USA400,

***Virucidal Activity:** *Adenovirus Type 2, (VR-846), *Influenza Virus Type A2 (Hong Kong), (VR-544), *Respiratory syncytial virus, (VR-26), *Herpes Simplex Virus Type 1, (VR-733), *Poliovirus Type 1, (VR-192), *Rotavirus, *Herpes Simplex Virus Type 2, (VR-734), *Rhinovirus Type 39, (VR-340).

Kills Norwalk virus and Feline Calicivirus when used as directed on hard, non-porous inanimate surfaces with a 30 second contact time.

Kills *Hepatitis B Virus (HBV), *Hepatitis C Virus (HCV) and *HIV-1 (AIDS virus) (HTLV-IIIa) when used as directed on hard, non-porous inanimate surfaces with a 1 minute contact time.

Kills *Human Coronavirus, (VR-740) when used as directed on hard, non-porous inanimate surfaces with a 2 minute contact time.

Kills *Hepatitis A Virus (HAV) when used as directed on hard, non-porous inanimate surfaces with a 10 minute contact time.

*Kills Pandemic 2009 H1N1 Influenza A virus.

Veterinary viruses: *Avian Influenza Virus, (VR-2072), *Feline panleukopenia Virus, (VR-648), *Pseudorabies Virus, (VR-135), *Canine parvovirus, (VR-2017).

Fungi/Yeast Activity: *Aspergillus niger* (ATCC 16404), *Candida albicans* (ATCC 18804), *Trichophyton mentagrophytes* (ATCC 9533).

Tuberculocidal Activity - This product exhibits disinfectant efficacy against *Mycobacterium tuberculosis* (BCG) in 5 minutes at 20° C when used as directed on previously cleaned hard non-porous environmental surfaces.

Fungicidal Activity - This product is fungicidal against the pathogenic fungi, *Trichophyton mentagrophytes* (the fungus which causes Athlete's Foot Fungus) in 3 minutes when used as directed on hard surfaces found in bathrooms, shower stalls, locker rooms, or other clean, non-porous, hard surfaces commonly contacted by bare feet.

Mold/Mildew Mildewstatic Activity - controls and prevents the growth of mold and mildew: *Aspergillus niger* (ATCC 6275).

Non-Food Contact Surface Sanitizer for hard non-porous surfaces - effective against *Enterobacter aerogenes* (ATCC 15038) and *Staphylococcus aureus* (ATCC 6538) in 30 seconds.

DIRECTIONS FOR USE

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

Disinfection, Deodorizing and Cleaning - Remove gross filth or heavy soil prior to application of the product. Hold container six to eight inches from surface to be treated. Spray area until it is covered with the solution. Allow product to saturate the surface and remain wet for 3 minutes. For Hepatitis A Virus, let surface remain wet for 10 minutes. Wipe off with a clean cloth, mop or sponge. A rinse with potable water is required for surfaces in direct contact with food. This product must not be used to disinfect or clean utensils, glassware and dishes.

To Use as a Tuberculocide: Remove gross filth or heavy soil prior to application of the product. Hold container six to eight inches from surface to be treated. Spray area until it is covered with the solution. Allow product to saturate the surface and remain wet for 5 minutes. Wipe off with a clean cloth, mop or sponge.

To Kill Norwalk virus and Feline Calicivirus: Remove gross filth or heavy soil prior to application of the product. Hold container six to eight inches from surface to be treated. Spray area until it is covered with the solution.

Allow product to saturate the surface and remain wet for 30 seconds. Wipe off with a clean cloth, mop or sponge. A rinse with potable water is required for surfaces in direct contact with food. This product must not be used to disinfect or clean utensils, glassware and dishes.

To Sanitize Non-Food Contact Surfaces:

1. Remove gross filth or heavy soil prior to sanitization.
2. Apply this product until thoroughly wet.
3. Let stand 30 seconds.
4. Then wipe.
5. Not for use on food contact surfaces or on food preparation areas.

To Kill Fungi:

1. Pre-clean heavily soiled areas.
2. Apply this product to hard, non-porous inanimate surfaces.
3. Allow surface to remain wet for three (3) minutes.
4. Wipe surfaces and let air dry.

For Use in Treatment of Animal Housing Facilities:

1. Remove all animals and feed from areas being treated.
2. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities occupied or traversed by animals.
3. Empty or cover all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Apply fresh use solution to floors, walls, cages and other washable hard, non-porous environmental surfaces. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet. To disinfect, all surfaces must remain wet for ten (10) minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
7. Do not house animals or employ equipment until product has dried.
8. For disinfection of feed racks, troughs, automatic feeders, fountains and watering appliances scrub with use-solution, let stand ten minutes. Then thoroughly scrub all treated surfaces with soap or detergent and rinse with potable water before reuse.

*This product kills HBV, HCV and HIV-1 in one minute on pre-cleaned inanimate surfaces/objects previously soiled with blood/body fluids in health care settings (Hospitals, Nursing Homes) and 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 Hepatitis B Virus, Hepatitis C Virus and Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HBV, HCV AND HIV-1 OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

Personal Protection: Disposable latex or vinyl gloves, gowns, face masks, and eye coverings as appropriate, must be worn during all cleaning of body fluids, blood, and decontamination procedures. **Cleaning Procedures:** Blood and body fluids must be thoroughly cleaned from surfaces and objects before application of this product. **Contact Time:** Allow surface to remain wet for 1 minute to kill HBV, HCV and HIV-1. For other organisms allow surface to remain wet for 3 minutes, 5 minutes for *Mycobacterium tuberculosis* (BCG) and 10 minutes for HAV. **Disposal of Infectious Material:** Blood and other body fluids must be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste disposal.

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(17/076)

Distributed by: Gordon Food Service, P.O. Box 1787, Grand Rapids, MI 49601