MATERIAL SAFETY DATA SHEET

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I - Product Identification

Nu-Quat Green Apple

PRODUCT CODE: 0193
CHEMICAL FORMULATION: Quaternary-based disinfectant.
NFPA HAZARD IDENTIFICATION SYSTEM: **HEALTH:** 2 **FLAMMABILITY:** 1 **REACTIVITY**: 0
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR: 302	355	372	CAS #
N,N-Didecyl-N,N-dimethylammonium chloride	1.00-3.00	N/E	N/E	N	N	N	7173-51-5
n-Alkyl (50% C_{14}, 40% C_{12}, 10% C_{16})-N,N- dimethylbenzylammonium chloride	1.00-3.00	N/E	N/E	N	N	N	8001-54-5

Key: **PEL**: Permissible Exposure Limit **TLV:** Threshold Limit Value **C**: Ceiling level **STEL**: Short Term Exposure Limit
N/A: Not Applicable **N/D**: Not Determined **N/E**: Not Established **Y**: Yes **N**: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D
VAPOR PRESSURE (mm Hg): N/D
VAPOR DENSITY (AIR = 1): N/D
SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY (WATER = 1): 1.00
VOC CONTENT (% by weight): <1.0
EVAPORATION RATE (WATER = 1): N/D
pH: 7.4 – 8.4
APPEARANCE AND ODOR: Clear, green liquid; apple fragrance.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): > 200 **(TEST METHOD):** Closed cup
FLAMMABLE LIMITS IN AIR (VOLUME %) **UPPER:** N/D **LOWER:** N/D
EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARD: None

V - Reactivity Data

STABILITY: Stable.
INCOMPATIBILITY: Strong acids.
CONDITIONS TO AVOID: None.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon.
HAZARDOUS POLYMERIZATION: Will not occur.

VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:** X
INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None
EFFECTS OF OVEREXPOSURE
IF IN EYES: Moderate to severe irritation, redness, tearing.
IF ON SKIN: Irritation, chapping, with prolonged or repeated exposure.
IF SWALLOWED: Gastrointestinal irritation, nausea, cramps, diarrhea.
IF INHALED: No hazard associated with normal use.
EMERGENCY AND FIRST AID PROCEDURES
IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.
IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder before reuse.
IF SWALLOWED: Contact physician or poison control center immediately. Give one to two glasses of water. Do not induce vomiting unless instructed by a physician or poison control center.
IF INHALED: Remove person to fresh air.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Soak up with inert absorbent material and placed in a closed container for disposal. Flush away residue with water.
WASTE DISPOSAL METHOD: Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation.
VENTILATION **LOCAL:** Not required **MECHANICAL:** Not required
PROTECTIVE GLOVES: Chemical resistant.
EYE PROTECTION: Safety glasses or goggles.
OTHER PROTECTIVE EQUIPMENT: Eye wash station.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place. Keep from freezing. Keep container tightly closed when not in use.
OTHER PRECAUTIONS: Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT ID NUMBER: None **DOT PROPER SHIPPING NAME:** None
DOT CLASS: None **DOT PACKING GROUP**: None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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