



MATERIAL SAFETY DATA SHEET

QUEST 256 Neutral
Disinfectant Cleaner

MSDS Ref. No: 4299
Date Prepared: 03/22/2002
Date Revised: 03/22/2002

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME/USE: QUEST 256 Neutral Disinfectant Cleaner

34 QUEST 256 Neutral Disinfectant Cleaner

Product Synonyms: Command Center 34 QUEST 256 Neutral Disinfectant Cleaner Concentrate;

Outpost 34 QUEST 256 Neutral Disinfectant Cleaner Concentrate

MANUFACTURER

The Butcher Company
67 Forest Street
Marlborough, MA 01752-3012

Butcher Telephone Number: 800-225-9475
Emergency Telephone (24 hours): 800-228-5635

2. COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENT(S) | CAS# | % BY WEIGHT |
|--|-------------|-------------|
| Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy- | 9016-45-9 | 10 - 25 |
| Alkyl dimethyl benzyl ammonium chloride | 68424 -85-1 | 7 - 10 |
| Octyl decyl dimethyl ammonium chloride | 68424 -95-3 | 5 - 7 |
| Dioctyl dimethyl ammonium chloride | 5538 -94-3 | 3 - 5 |
| Didecyl dimethyl ammonium chloride | 7173-51-5 | 3 - 5 |
| Ethyl alcohol | 64-17-5 | 1 - 3 |

See Section 8 for Exposure Limits NA - Not Applicable

OSHA REGULATORY STATUS: This product is classified as hazardous under OSHA regulations.

WHMIS CLASS: Not controlled.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, Blue-Green Liquid . Mild Detergent Odor. Causes Eye and Skin Burns. Harmful if Swallowed.

POTENTIAL HEALTH EFFECTS (See Section 11 for Toxicological Information)

PRIMARY ROUTE(s) OF EXPOSURE: ☒ Eye ☒ Skin Contact ☐ Skin Absorption
☒ Inhalation ☒ Ingestion

EFFECTS OF ACUTE EXPOSURE

EYES: Causes eye burns. Symptoms may include pain, tearing, redness, and eye injury.

SKIN: Causes skin burns. Symptoms may include pain, redness, swelling, scarring, and skin damage.

INHALATION: High concentrations of vapor or mist may cause nose, throat and respiratory tract irritation. Symptoms may include coughing and a burning sensation in the nose and throat.

INGESTION: Harmful if swallowed. May cause mouth, throat and stomach burns. Symptoms may include nausea, vomiting, diarrhea, and severe stomach pain. May also cause central nervous system effects including headache, dizziness and

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weakness.

EFFECTS OF CHRONIC EXPOSURE: Prolonged or repeated contact may cause skin irritation.

MEDICAL CONDITIONS AGGRAVATED: May aggravate pre-existing eye, skin and respiratory conditions.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water while holding eyelids apart. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not put any medication in the victim's eyes unless instructed by a physician. Get immediate medical attention.

SKIN: Immediately flush with plenty of water, then wash with soap and water. Remove saturated clothing. Get medical attention if irritation develops or persists. Thoroughly wash (or discard) clothing and shoes before reuse.

INHALATION: Remove to fresh air. If not breathing, give respiration; if breathing is difficult, give oxygen (by trained personnel only). Get medical attention if symptoms persist.

INGESTION: Do not induce vomiting. Drink large quantities of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: > 93°C (200°F)TCC

FLAMMABLE LIMITS: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: Normal products of combustion (carbon monoxide and carbon dioxide) and nitrogen oxides.

FIRE AND EXPLOSION HAZARDS: None known.

FIRE FIGHTING INSTRUCTIONS: This product is not flammable. As in any fire, MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear should be worn.

6. ACCIDENTAL RELEASE MEASURES

See Section 8, Exposure Controls/Personal Protection and Section 3, Hazard Identification. Floors may be slippery. Use care to avoid falling. Contain and isolate spill. Keep non-essential personnel from entering spill area. Use mop, absorbent, or wet vacuum to collect material for proper disposal. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING: Follow label use directions. Do not mix with other chemicals unless instructed by label directions. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove contaminated clothing. Wash clothing and equipment before reuse.

STORAGE: Keep container closed when not in use. Store away from incompatible materials. (See Section 10, Stability and Reactivity).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE: Where eye contact is possible, wear chemical splash goggles (ANSI Z87.1-approved).

SKIN: Where skin contact is possible, chemical-resistant clothing (e.g., gloves) should be worn.

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RESPIRATORY: No respiratory protection is required if ventilation is adequate.

ENGINEERING CONTROLS: Good general room ventilation is expected to be adequate.

EXPOSURE LIMITS:

INGREDIENT(S)

Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-
Alkyl dimethyl benzyl ammonium chloride
Octyl decyl dimethyl ammonium chloride
Dioctyl dimethyl ammonium chloride
Didecyl dimethyl ammonium chloride
Ethyl alcohol

OSHA PEL/STEL

NA
NA
NA
NA
NA
1000 ppm 1900
mg/m3

ACGIH TLV/STEL

NA
NA
NA
NA
NA
1000 ppm 1880
mg/m3

NA - Not Available

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Mild Detergent

APPEARANCE: Clear, Blue-Green

pH: 7.7 to 8.5

PERCENT VOLATILE BY WEIGHT: 64

VAPOR PRESSURE: Not Determined

VAPOR DENSITY: Not Determined

BOILING POINT: Not Determined

FREEZING/MELTING POINT: Not Determined

SOLUBILITY IN WATER: Complete

EVAPORATION RATE: Not Determined

SPECIFIC GRAVITY: 1.02

VISCOSITY: Water Thin

OCTANOL/WATER PARTITION COEFFICIENT: Not Determined

ODOR THRESHOLD: Not Determined

10. STABILITY AND REACTIVITY

STABILITY (CONDITIONS TO AVOID): Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: None.

INCOMPATIBLE MATERIALS: Oxidizers (e.g., bleach).

11. TOXICOLOGICAL INFORMATION

ACUTE DATA: This product causes eye burns and severe skin irritation. Based on acute toxicity testing, this product is harmful if swallowed. It is not considered to be toxic by skin absorption. The following data are available for this product and its ingredients:

PRODUCT/INGREDIENT

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Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-
Alkyl dimethyl benzyl ammonium chloride
Octyl decyl dimethyl ammonium chloride
Dioctyl dimethyl ammonium chloride
Didecyl dimethyl ammonium chloride
Ethyl alcohol

ORAL LD₅₀ (rat)

200-2000 mg/kg
2000 - 5000
mg/kg
447 - mg/kg
Not Available
Not Available
450 - mg/kg
7060 - mg/kg

DERMAL LD₅₀ (rabbit)

200-2000 mg/kg
1000 - 3000 mg/kg
Not Available
Not Available
Not Available
3342 - mg/kg
Not Available

INHALATION LC₅₀ (rat)

Not Available
Not Available
Not Available
Not Available
Not Available
31623 - ppm (4-hr)

SENSITIZATION DATA: No data available.

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CHRONIC DATA:

No data available.

REPRODUCTIVE/TERATOGENIC DATA: Excessive and prolonged ingestion of ethyl alcohol has been found to cause reproductive and teratogenic effects in humans and laboratory animals.

CARCINOGENIC/MUTAGENIC DATA: Not listed as carcinogenic by NTP, IARC, or ACGIH or regulated as a carcinogen by OSHA.

SYNERGISTIC MATERIALS: No data available.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, state or provincial and federal regulations. The unused product, as manufactured, is a RCRA non-hazardous waste in accordance with 40 CFR 261. The product has not been evaluated by the Toxicity Characteristic Leachate Procedure (TCLP). According to RCRA, it is the responsibility of the waste generator to ensure proper disposal.

14. TRANSPORT INFORMATION

DOT/TDG HAZARDOUS MATERIAL DESCRIPTION: Disinfectants, liquid, corrosive, n.o.s.

DOT/TDG TECHNICAL NAME: Quaternary ammonium compounds

DOT/TDG HAZARD CLASS: 8

UN ID No./P.I.N. No.: UN1903

DOT/TDG PACKING GROUP: II

NAERG: 153

15. REGULATORY INFORMATION

Not meant to be all-inclusive---selected regulations represented.

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Under 40 CFR 370.2, this product meets the following hazard category: Immediate.

313 REPORTABLE INGREDIENTS: Ingredients in this product are not currently subject to notification.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: None of the ingredients in this product are reportable under CERCLA.

EPA

EPA REG. NO.: 1839-167-7176

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: This product complies with all TSCA inventory requirements.

MASSACHUSETTS, NEW JERSEY, PENNSYLVANIA RIGHT-TO-KNOW:

| <u>INGREDIENT(S)</u> | <u>CAS NO.</u> | <u>STATE LISTING</u> |
|--|----------------|----------------------|
| Water | 7732-18-5 | Not Listed |
| Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy- | 9016-45-9 | Not Listed |
| Alkyl dimethyl benzyl ammonium chloride | 68424 -85-1 | Not Listed |
| Octyl decyl dimethyl ammonium chloride | 68424 -95-3 | Not Listed |
| Dioctyl dimethyl ammonium chloride | 5538 -94-3 | Not Listed |
| Ethyl alcohol | 64-17-5 | MA, NJ, PA |

NA - Not Applicable

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Not controlled by WHMIS.

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PCP REG. NO.: 26390

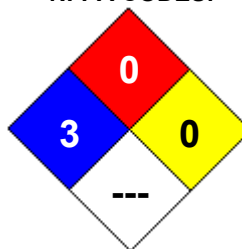
DIN REG. NO.: 02243678

16. OTHER INFORMATION

HMIS RATING

| | |
|---------------------|---|
| HEALTH | 3 |
| FLAMMABILITY | 0 |
| REACTIVITY | 0 |
| PERSONAL PROTECTION | - |

NFPA CODES:



APPROVED BY: Product Safety & Regulatory

MSDS STATUS

Revision No: 7

Revision #: 7

This MSDS replaces the April 20, 2001 MSDS. Any changes in information are as follows:

In Section 1

Approved by Date Prepared

APPROVAL DATE: 03/22/2002

The information on this data sheet represents our current data and best opinion as to the proper use in handling of the product under normal foreseeable conditions. Any use of this product which is not in conformance with this data sheet or product label, or which involves using the product in combination with any other product or any other process is the responsibility of the user.