



MATERIAL SAFETY DATA SHEET

HEPTAGON Disinfectant Spray

Date Prepared: 12/15/1997
Date Revised: 12/18/1997

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/Use: HEPTAGON Disinfectant Spray

MANUFACTURER

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

Butcher Telephone Number: 800-225-9475
Emergency Telephone (24 hours): 800-228-5635 Ext 118

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT(S)</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
n-Alkyl dimethylbenzyl ammonium chloride	NA	<0.1
n-Alkyl dimethyl ethyl benzyl ammonium chloride	NA	<0.1

See Section 8 for Exposure Limits *NA - Not Applicable*

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, Colorless Liquid. No Odor. Product Does Not Present a Significant Immediate Concern for Emergency Response Personnel.

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:

Non-irritating to the eyes, but may cause temporary redness or discomfort.

SKIN:

Non-irritating to the skin.

INHALATION:

Not expected to be irritating or harmful if inhaled.

INGESTION:

May cause temporary mouth, throat and stomach discomfort. Symptoms may include nausea.

EFFECTS OF CHRONIC EXPOSURE:

None known.

MEDICAL CONDITIONS AGGRAVATED:

None known.

4. FIRST AID MEASURES

EYES:

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 medical attention if irritation develops.

SKIN:

Flush with water, then wash with soap and water. Remove saturated clothing. Get medical attention if irritation develops.

INHALATION:

Remove to fresh air. Get medical attention if symptoms persist.

INGESTION:

Do not induce vomiting. Drink large quantities of water. Get medical attention.

5. FIRE FIGHTING MEASURES

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

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

Contain spill. Use mop, absorbent, or wet vacuum to collect material for proper disposal. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING:

Use good personal hygiene practices. No special precautions are required for anticipated conditions of use. Remove saturated clothing.

STORAGE:

No special storage practices are required. Keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE:

Not required under normal conditions of use.

SKIN:

Not required under normal conditions of use.

RESPIRATORY:

Not required under normal conditions of use.

ENGINEERING CONTROLS:

No special controls are required.

EXPOSURE LIMITS:

<u>INGREDIENT(S)</u>	<u>OSHA PEL/STEL</u>	<u>ACGIH TLV/STEL</u>
n-Alkyl dimethylbenzyl ammonium chloride	NE	NE
n-Alkyl dimethyl ethyl benzyl ammonium chloride	NE	NE

NE - Not Established

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: No

APPEARANCE: Clear, Colorless

pH: 11.0

PERCENT VOLATILE BY WEIGHT: 99.5

VAPOR PRESSURE: 22.3 mmHg

VAPOR DENSITY: Not Determined

BOILING POINT: 200°F 93.4°C

FREEZING/MELTING POINT: Not Determined

SOLUBILITY IN WATER: Complete

EVAPORATION RATE: Not Determined

SPECIFIC GRAVITY: 0.99
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:
None known.

11. TOXICOLOGICAL INFORMATION

ACUTE DATA:

This product is non-irritating to skin and eyes. Based on acute toxicity testing, it is not considered to be toxic by ingestion and skin absorption. The following data are available for this product and its ingredients:

<u>PRODUCT/INGREDIENT</u>	<u>ORAL LD₅₀ (rat)</u>	<u>DERMAL LD₅₀ (rabbit)</u>	<u>INHALATION LC₅₀ (rat)</u>
HEPTAGON Disinfectant Spray	>5000 mg/kg	>2000 mg/kg	Not Available
n-Alkyl dimethylbenzyl ammonium chloride	590 mg/kg	>2000 mg/kg	Not Available
n-Alkyl dimethyl ethyl benzyl ammonium chloride	500–5000 mg/kg	>2000 mg/kg	Not Available

SENSITIZATION DATA:
No data available.

CHRONIC DATA:
No data available.

REPRODUCTIVE/TERATOGENIC DATA:
No data available.

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: Not regulated

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 categories:
None.

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.: 61178-2-7176

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

NA - Not Applicable

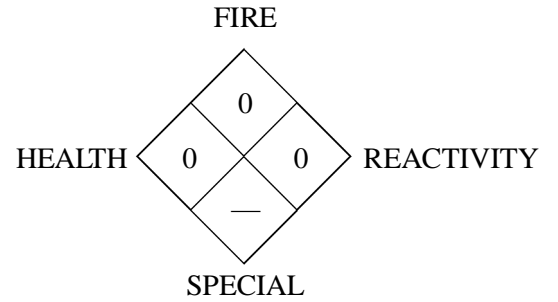
STATE REGULATIONS: Product contains a mixture of surfactant and quaternary ammonium compounds below State reporting requirements.

16. OTHER INFORMATION

HMIS RATING

HEALTH	-	0
FLAMMABILITY		0
REACTIVITY		0
PERSONAL PROTECTION	-	

NFPA RATING



MSDS STATUS

New MSDS

APPROVED BY: EH&S/Regulatory Affairs
APPROVAL DATE: 12/18/1997

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.