



MATERIAL SAFETY DATA SHEET

3 GLISTEN Glass and
Surface Cleaner
Concentrate

MSDS Ref. No: 4308
Date Prepared: 03/22/2002
Date Revised: 03/22/2002

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME/USE: 3 GLISTEN Glass and Surface Cleaner Concentrate

Product Synonyms: Command Center 3 GLISTEN Glass and Surface Cleaner Concentrate;
Outpost 3 GLISTEN Glass and Surface 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
CHEMTREC (U.S./Can.): 800-424-9300
CHEMTREC (Int'l): +1 703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT(S)</u>	<u>CAS#</u>	<u>% BY WEIGHT</u>
2-Butoxyethanol	111-76-2	40 - 60
Ammonia	7664-41-7	3 - 5
Ethylene glycol	107-21-1	0.1 - 0.5

See Section 8 for Exposure Limits NA - Not Applicable

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

WHMIS CLASS: Class E; Class D- Division 1A

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, Blue Liquid . Ammonia Odor. Causes Eye and Skin Burns. May Cause Respiratory Tract Irritation.
Harmful if Swallowed, Inhaled or Absorbed Through Skin.

POTENTIAL HEALTH EFFECTS (See Section 11 for Toxicological Information)

PRIMARY ROUTE(s) OF EXPOSURE: X Eye X Skin Contact X Skin Absorption
X Inhalation X 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. May be absorbed through the skin and may cause effects as described under Inhalation (see below).

INHALATION: Harmful if inhaled. Symptoms may include coughing, chest discomfort, difficulty breathing and shortness of breath. High concentrations of vapor or mist may cause nose, throat and respiratory tract irritation. Symptoms may include coughing and a disagreeable metallic taste. High concentrations of vapor or mist may also cause central nervous system effects including headache, dizziness and nausea.

INGESTION: Harmful if swallowed. May cause mouth, throat and stomach burns. Symptoms may include nausea, vomiting,

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diarrhea, and severe stomach pain. May also cause central nervous system effects including headache, dizziness and weakness.

EFFECTS OF CHRONIC EXPOSURE: Prolonged inhalation of high concentrations of ammonia above exposure limits (see Section 8, Exposure Controls/Personal Protection) can cause respiratory tract effects including bronchitis, pneumonia and pulmonary edema.

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 for at least 15 minutes, then wash with soap and water. Immediately remove contaminated clothing. Get medical attention if irritation develops or persists. Thoroughly wash (or discard) clothing before reuse. Destroy contaminated shoes.

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

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

5. FIRE FIGHTING MEASURES

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

FLAMMABLE LIMITS: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

EXTINGUISHING MEDIA: Use water fog, dry chemical, CO₂, or foam.

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

FIRE AND EXPLOSION HAZARDS: None known.

FIRE FIGHTING INSTRUCTIONS: Evacuate area. Cool containers exposed to fire with water. 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. Ventilate spill area. Contain and isolate spill. Keep non-essential personnel from entering spill area. Use mop and absorbent to collect material for proper disposal. Use non-metallic implements for cleaning and collection. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING: Follow label use directions. Do not mix with other chemicals unless instructed by label directions. Loosen container cautiously before opening. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling. Immediately remove contaminated clothing. Wash clothing and equipment before reuse. Destroy contaminated shoes. Empty containers retain residue and may be hazardous (See Section 14, Transport Information.).

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)

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

SKIN: Where skin contact is possible, chemical-resistant gloves should be worn. When additional skin contact is possible, other protective equipment and clothing (e.g., footwear) may be needed. All contaminated clothing should be removed immediately and cleaned (or discarded) before reuse.

RESPIRATORY: No respiratory protection is required if general room ventilation is adequate and airborne concentrations are kept below exposure limits. When exposure limits are exceeded, use appropriate respiratory protection (NIOSH/MSHA) to prevent overexposure.

ENGINEERING CONTROLS: Good general room ventilation is expected to be adequate. Local exhaust ventilation (e.g., fans) may be necessary when general ventilation does not keep airborne concentrations below exposure limits.

EXPOSURE LIMITS:

INGREDIENT(S)

2-Butoxyethanol

Ammonia

Ethylene glycol

NA - Not Available

OSHA PEL/STEL

25 ppm 120 mg/m3 /
Skin

50 ppm 35 mg/m3 /
35 ppm 27 mg/m3

125 mg/m3 (Ceiling)

ACGIH TLV/STEL

25 ppm 121 mg/m3 /
Skin

25 ppm 17 mg/m3 /
35 ppm 24 mg/m3

100 mg/m3 (Ceiling)

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Ammonia

APPEARANCE: Clear, Blue

pH: 11.2 to 12.5

PERCENT VOLATILE BY WEIGHT: 99

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: 0.95

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 known.

INCOMPATIBLE MATERIALS: Oxidizers, chlorine (e.g., bleach), strong acids (e.g. hydrochloric acid), strong bases (e.g., sodium hydroxide), and reactive metals (e.g., aluminum).

11. TOXICOLOGICAL INFORMATION

ACUTE DATA: No data is available for this product. Acute overexposure to high concentrations of 2-butoxyethanol by skin absorption, ingestion and inhalation has caused blood, liver and kidney effects in laboratory animals. The following additional data are available for product ingredients:

PRODUCT/INGREDIENT

2-Butoxyethanol

Ammonia

Ethylene glycol

ORAL LD₅₀ (rat)

470 - mg/kg

350 - mg/kg

4700 - mg/kg

DERMAL LD₅₀ (rabbit)

220 - mg/kg

Not Available

9500 - mg/kg

INHALATION LC₅₀ (rat)

450 - ppm (4-hr)

3670 - ppm (4-hr)

Not Available

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SENSITIZATION DATA: No data available.

CHRONIC DATA:

Prolonged overexposure to ammonia by inhalation has caused respiratory tract effects in humans. Prolonged overexposure to high concentrations of 2-butoxyethanol by skin absorption, ingestion and inhalation has caused blood, liver and kidney effects in laboratory animals.

REPRODUCTIVE/TERATOGENIC DATA: Ingestion of ethylene glycol has caused teratogenic effects in 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

This product is made with all biodegradable detergents. No other 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, may be a RCRA hazardous waste in accordance with 40 CFR 261. The product's pH should be verified prior to disposal. According to RCRA, it is the responsibility of the waste generator to ensure proper disposal.

14. TRANSPORT INFORMATION

DOT/TDG HAZARDOUS MATERIAL DESCRIPTION: Corrosive Liquids, N.O.S.

DOT/TDG TECHNICAL NAME: Ammonia, ethylene glycol butyl ether

DOT/TDG HAZARD CLASS: 8

UN ID No./P.I.N. No.: 1760

DOT/TDG PACKING GROUP: II

NAERG: 154

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: Immediate, Delayed.

313 REPORTABLE INGREDIENTS: 2-Butoxyethanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 under the chemical category Glycol Ethers.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Not reportable under CERCLA.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

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

INGREDIENT(S)

Water

2-Butoxyethanol

Ammonia

NA - Not Applicable

CAS NO.

7732-18-5

111-76-2

7664-41-7

STATE LISTING

Not Listed

MA, NJ, PA

MA, NJ, PA

CANADA

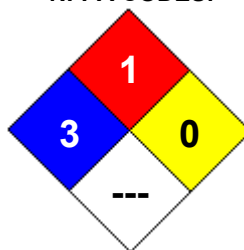
WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Class E, corrosive material; Class D-Division 1A; very toxic material. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

HMIS RATING

HEALTH	*	3
FLAMMABILITY		1
REACTIVITY		0
PERSONAL PROTECTION		-

NFPA CODES:



APPROVED BY: Product Safety & Regulatory

MSDS STATUS

Revision No: 4

Revision #: 4

This MSDS replaces the January 04, 2000 MSDS. Any changes in information are as follows:

In Section 1

Approved by Date Prepared [] Print CHEMTREC Phone Number

In Section 3

Signs & Symptoms - Inhalation Signs & Symptoms - Skin

In Section 8

Engineering Controls

In Section 9

(pH) (To)

In Section 10

Hazardous Decomposition Products

In Section 11

Toxicological

In Section 15

OSHA Hazard Comm. Rule WHMIS Class

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.