MATERIAL SAFETY DATA SHEET

31 LOOK NB Glass Cleaner Concentrate

Date Prepared: 12/04/2000
Date Revised: 12/04/2000

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name/Use: 31 LOOK NB Glass Cleaner Concentrate
Product Synonyms: Command Center 31 LOOK NB Glass Cleaner Concentrate; Outpost 31 LOOK NB Glass 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

INGREDIENT(S)	CAS NO.	% BY WEIGHT
Propylene glycol monobutyl ether	5131-66-8	25 – 40
Isopropyl alcohol	67-63-0	7 – 10
Alcohol ethoxy sulfate	NA	5 – 7
Propylene glycol monomethyl ether	107-98-2	3 – 5
Ammonium hydroxide	1336-21-6	3 – 5
Ethyl alcohol	64-17-5	0.25 – <1.0

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

OSHA REGULATORY STATUS: This product is classified as hazardous under OSHA regulations.
WHMIS CLASS: Class B- Division 3; Class D- Division 2B

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, Blue Liquid. Ammonia/Solvent Odor. Combustible. Causes Eye Irritation. May Cause Respiratory Tract Irritation. May Be Harmful if Swallowed.

POTENTIAL HEALTH EFFECTS *(See Section 11 for Toxicological Information)*
PRIMARY ROUTE(s) OF EXPOSURE: _X_ Eye _X_ Skin Contact ___ Skin Absorption _X_ Inhalation _X_ Ingestion

EFFECTS OF ACUTE EXPOSURE

EYES:
Causes eye irritation. Symptoms may include redness and pain.

SKIN:
May cause mild skin irritation. Symptoms may include redness.

INHALATION:

High concentrations of vapor or mist may cause nose, throat and respiratory tract irritation. Symptoms may include coughing, wheezing and shortness of breath. High concentrations of vapor or mist may also cause central nervous system effects including headache, dizziness and nausea.

INGESTION:

May be harmful if swallowed. May cause mouth, throat and stomach irritation. Symptoms may include nausea, vomiting and diarrhea. May also cause central nervous system effects including headache, dizziness and weakness.

EFFECTS OF CHRONIC EXPOSURE:

Prolonged or repeated contact can cause defatting and drying of the skin which may result in skin irritation and dermatitis (rash). 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:

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.

SKIN:

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

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.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: 106°F 41.1°C TCC

AUTOIGNITION TEMPERATURE: Not applicable.

EXTINGUISHING MEDIA:

Use water fog, dry chemical, CO_2, or foam.

HAZARDOUS COMBUSTION PRODUCTS:

Normal products of combustion (carbon monoxide and carbon dioxide), nitrogen oxides, sulfur oxides, and ammonia.

FIRE AND EXPLOSION HAZARDS:

Class II combustible liquid. This product is combustible and may be ignited by heat, sparks, flame, and other ignition sources.Vapors can travel to a source of ignition and flash back.

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. Remove ignition sources and ventilate spill area. Contain and isolate spill. Keep non-essential personnel from entering spill area. Use mop, absorbent and non-sparking tools 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. Loosen closure cautiously before opening. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Use spark-proof tools. 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). Store away from direct sunlight. Keep away from heat, sparks and flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE:

Where eye contact is possible, wear safety glasses with side shields or chemical splash goggles (ANSI Z87.1 approved).

SKIN:

Where prolonged or repeated contact is possible, chemical-resistant clothing (e.g., gloves) is recommended.

RESPIRATORY:

No respiratory protection is required if ventilation is adequate and airborne concentrations are kept below exposure limits. When exposure limits may be exceeded, use appropriate respiratory protection (NIOSH)/MSHA-approved) to prevent overexposure.

ENGINEERING CONTROLS:

Good general room ventilation is expected to be adequate. If user operations generate vapor or mist, ventilation should be used to keep airborne concentrations below exposure limits.

EXPOSURE LIMITS:

INGREDIENT(S)	OSHA PEL/STEL	ACGIH TLV/STEL
Propylene glycol monobutyl ether	NA	NA
Isopropyl alcohol	400 ppm (980 mg/m3)/ 500 ppm (1225 mg/m3)	400 ppm (983 mg/m3)/ 500 ppm (1230 mg/m3)
Alcohol ethoxy sulfate	NA	NA
Propylene glycol monomethyl ether	100 ppm (360 mg/m3)/ 150 ppm (540 mg/m3)	100 ppm (369 mg/m3)/ 150 ppm (553 mg/m3)
Ammonium hydroxide	50 ppm (35 mg/m3)/ 35 ppm (27 mg/m3)	25 ppm (17 mg/m3)/ 35 ppm (24 mg/m3) (NH3)
Ethyl alcohol	1000 ppm (1900 mg/m3)	1000 ppm (1880 mg/m3)

NA - Not Available

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Ammonia/Solvent
APPEARANCE: Clear, Blue
pH: 10.0 to 11.5
PERCENT VOLATILE BY WEIGHT: 95
VAPOR PRESSURE: Not Available
VAPOR DENSITY: Not Available
BOILING POINT: Not Available
FREEZING/MELTING POINT: Not Available
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: Not Available
SPECIFIC GRAVITY: 0.95
VISCOSITY: Water Thin
OCTANOL/WATER PARTITION COEFFICIENT: Not Available
ODOR THRESHOLD: Not Available

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:

Based on testing of a similar product, this product may cause moderate to severe eye and mild skin irritation. It may be harmful if swallowed. It is not considered to be toxic by inhalation. The following data are available for product ingredients:

PRODUCT/INGREDIENT	ORAL LD_{50} (rat)	DERMAL LD_{50} (rabbit)	INHALATION LC_{50} (rat)
Propylene glycol monobutyl ether	1900–3300 mg/kg	1400 mg/kg	Not Available
Isopropyl alcohol	4710 mg/kg	12870 mg/kg	17000 ppm (4-hr)
Alcohol ethoxy sulfate	Not Available	Not Available	Not Available
Propylene glycol monomethyl ether	5660 mg/kg	13000 mg/kg	15000 ppm (4-hr)
Ammonium hydroxide	350 mg/kg	Not Available	3670 ppm (4-hr)
Ethyl alcohol	7060 mg/kg	Not Available	31623 ppm (4-hr)

SENSITIZATION DATA:

No data available.

CHRONIC DATA:

Prolonged overexposure to ammonia by inhalation has caused respiratory tract effects in humans. Prolonged overexposure to propylene glycol monomethyl ether by inhalation and ingestion has caused minor liver effects in laboratory animals; overexposure by dermal absorption and ingestion has also caused minor kidney effects in laboratory animals.

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

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, is a RCRA hazardous waste (Ignitable-D001) 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 when in a container of 119 gallons (454 liters) or less.

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, Fire.

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

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)	CAS NO.	STATE LISTING
Water	7732-18-5	Not Listed
Propylene glycol monobutyl ether	5131-66-8	Not Listed
Isopropyl alcohol	67-63-0	MA, NJ, PA
Alcohol ethoxy sulfate	NA	Not Listed
Propylene glycol monomethyl ether	107-98-2	MA, NJ, PA
Ammonium hydroxide	1336-21-6	MA, NJ, PA

NA - Not Applicable

STATE REGULATIONS: Ethanol is listed on the Massachusetts Right-to-Know Substance List, New Jersey Right-To-Know Hazardous Substance List and the Pennsylvania Hazardous Substance List.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

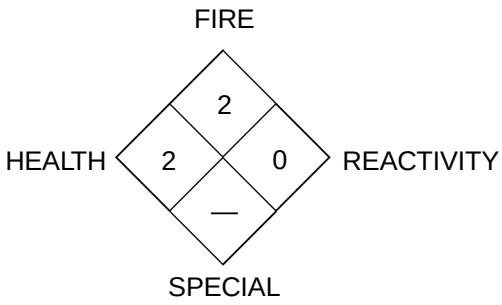
Class B-Division 3, combustible liquid; Class D-Division 2B, eye and skin irritant. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

HMIS RATING

HEALTH	-	2
FLAMMABILITY		2
REACTIVITY		0
PERSONAL PROTECTION		-

NFPA RATING



MSDS STATUS
Revision #: 2

This MSDS replaces the January 19, 2000 MSDS. Any changes in information are as follows:
In Section 1
Date Prepared [ ] Print CHEMTREC Phone Number

In Section 3
Emergency Overview - Immediate Concerns

In Section 9
(pH) (To) (Group Field) for Vapor Pressure (Group Field) for Vapor Pressure Density Odor Threshold (Group Field) for Boiling Point (Group Field) for Freezing Point (Group Field) for Evaporation Rate Coeff Oil/Water

In Section 10
Hazardous Decomposition Products

In Section 15
OSHA Hazard Comm. Rule WHMIS Class

APPROVED BY: EH&S/Regulatory Affairs
APPROVAL DATE: 12/04/2000

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.