



## MATERIAL SAFETY DATA SHEET

2 LOOK NA Glass Cleaner  
Concentrate

MSDS Ref. No: 4402  
Date Prepared: 09/27/2001  
Date Revised: 10/16/2001

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME/USE: 2 LOOK NA 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

<u>INGREDIENT(S)</u>	<u>CAS#</u>	<u>% BY WEIGHT</u>
2-Butoxyethanol	111-76-2	10 - 25
Propylene glycol monomethyl ether	107-98-2	7 - 10
Alcohol ethoxy sulfate	NA	5 - 7
Tetrasodium ethylenediamine tetraacetate	64-02-8	5 - 7
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 . Solvent Odor. Combustible. May Cause Eye Irritation. May Be 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:** May cause eye irritation. Symptoms may include redness and pain.

**SKIN:** May cause mild skin irritation. Symptoms may include redness. May be absorbed through the skin and may cause effects as described under Inhalation (see below).

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

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**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).

**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:** 63.8°C (147°F)TCC

**AUTOIGNITION TEMPERATURE:** Not applicable.

**EXTINGUISHING MEDIA:** Use water fog, dry chemical, CO<sub>2</sub>, or foam.

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

**FIRE AND EXPLOSION HAZARDS:** Class IIIA combustible liquid. This product is combustible and may be ignited by heat, flames and other ignition sources.

**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.

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**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)

2-Butoxyethanol

Propylene glycol monomethyl ether

Alcohol ethoxy sulfate

Tetrasodium ethylenediamine tetraacetate

Ethyl alcohol

#### OSHA PEL/STEL

25 ppm 120 mg/m<sup>3</sup> /  
Skin

100 ppm 360 mg/m<sup>3</sup>  
/

150 ppm 540 mg/m<sup>3</sup>

NA

NA

1000 ppm 1900  
mg/m<sup>3</sup>

#### ACGIH TLV/STEL

25 ppm 121 mg/m<sup>3</sup> /  
Skin

100 ppm 369 mg/m<sup>3</sup> /  
150 ppm 553 mg/m<sup>3</sup>

NA

NA

1000 ppm 1880  
mg/m<sup>3</sup>

NA - Not Available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Solvent

**APPEARANCE:** Clear, Blue

**pH:** 9.5 to 11.5

**PERCENT VOLATILE BY WEIGHT:** 92

**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:** 0.99

**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 irritation and mild skin irritation. It may be harmful if swallowed. It is not considered to be toxic by inhalation. 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

Propylene glycol monomethyl ether

Alcohol ethoxy sulfate

Tetrasodium ethylenediamine tetraacetate

Ethyl alcohol

#### ORAL LD<sub>50</sub> (rat)

470 - mg/kg

5660 - mg/kg

Not Available

3030 - mg/kg

7060 - mg/kg

#### DERMAL LD<sub>50</sub> (rabbit)

220 - mg/kg

13000 - mg/kg

Not Available

>5000 - mg/kg

Not Available

#### INHALATION LC<sub>50</sub> (rat)

450 - ppm (4-hr)

15000 - ppm (4-hr)

Not Available

Not Available

31623 - ppm (4-hr)

**SENSITIZATION DATA:** No data available.

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### CHRONIC DATA:

Prolonged overexposure to high concentrations of 2-butoxyethanol by skin absorption, ingestion and inhalation has caused blood, liver and kidney effects in laboratory animals. 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 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: Immediate, Delayed, Fire.

**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  
Propylene glycol monomethyl ether  
Alcohol ethoxy sulfate  
Tetrasodium ethylenediamine tetraacetate

##### CAS NO.    STATE LISTING

7732-18-5	Not Listed
111-76-2	MA, NJ, PA
107-98-2	MA, NJ, PA
NA	Not Listed
64-02-8	Not Listed

NA - Not Applicable

### 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.

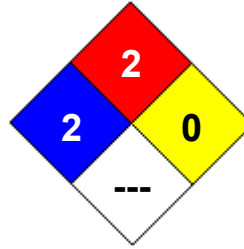
## 16. OTHER INFORMATION

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### HMIS RATING

HEALTH	*	2
FLAMMABILITY		2
REACTIVITY		0
PERSONAL PROTECTION		-

### NFPA CODES:



**APPROVED BY:** EH&S/Regulatory Affairs

### MSDS STATUS

**Revision No:** New MSDS

New MSDS

**APPROVAL DATE:** 10/16/2001

*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.*