



MATERIAL SAFETY DATA SHEET

KDS 2 LOOK Glass Cleaner Concentrate

Date Prepared: 12/10/1997
Date Revised: 12/18/1997

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/Use: KDS 2 LOOK 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 Ext 118

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT(S)</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
2-Butoxyethanol	111-76-2	10 – 25
Propylene glycol monomethyl ether	107-98-2	3 – 5
Alcohol ethoxy sulfate	NA	3 – 5
Ammonium hydroxide	1336-21-6	1 – 3
Tetrasodium ethylenediamine tetraacetate	64-02-8	1 – 3
Ethyl alcohol	64-17-5	0.25 – <1.0

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, Blue Liquid. Ammonia/Solvent Odor. 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.

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: >200°F 93°C TCC

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), nitrogen oxides, sulfur oxides, and ammonia.

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. Ventilate spill area. 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. Loosen closure cautiously before opening. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. 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 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:

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:

<u>INGREDIENT(S)</u>	<u>OSHA PEL/STEL</u>	<u>ACGIH TLV/STEL</u>
2-Butoxyethanol	25 ppm (120 mg/m ³)/ (Skin)	25 ppm (121 mg/m ³)/ (Skin)
Propylene glycol monomethyl ether	100 ppm (360 mg/m ³)/ 150 ppm (540 mg/m ³)	100 ppm (369 mg/m ³)/ 150 ppm (553 mg/m ³)
Alcohol ethoxy sulfate	NE	NE
Ammonium hydroxide	50 ppm (35 mg/m ³)/ (NH ₃)	25 ppm (17 mg/m ³)/ 35 ppm (24 mg/m ³) (NH ₃)
Tetrasodium ethylenediamine tetraacetate	NE	NE
Ethyl alcohol	1000 ppm	1000 ppm

NE - Not Established

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
 ODOR: Ammonia/Solvent
 APPEARANCE: Clear, Blue
 pH: 10.1 to 11.1
 PERCENT VOLATILE BY WEIGHT: 94
 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: 0.99
 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:

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:

<u>PRODUCT/INGREDIENT</u>	<u>ORAL LD₅₀ (rat)</u>	<u>DERMAL LD₅₀ (rabbit)</u>	<u>INHALATION LC₅₀ (rat)</u>
2-Butoxyethanol	470 mg/kg	220 mg/kg	450 ppm (4-hr)
Propylene glycol monomethyl ether	5660 mg/kg	13000 mg/kg	15000 ppm (4-hr)
Alcohol ethoxy sulfate	Not Available	Not Available	Not Available
Ammonium hydroxide	350 mg/kg	Not Available	Not Available
Tetrasodium ethylenediamine tetraacetate	3030 mg/kg	>5000 mg/kg	Not Available
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 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.

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:

<u>INGREDIENT(S)</u>	<u>CAS NO.</u>	<u>STATE LISTING</u>
Water	7732-18-5	Not Listed
2-Butoxyethanol	111-76-2	MA, NJ, PA
Propylene glycol monomethyl ether	107-98-2	MA, NJ, PA
Alcohol ethoxy sulfate	NA	Not Listed
Ammonium hydroxide	1336-21-6	MA, NJ, PA

NA - Not Applicable

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

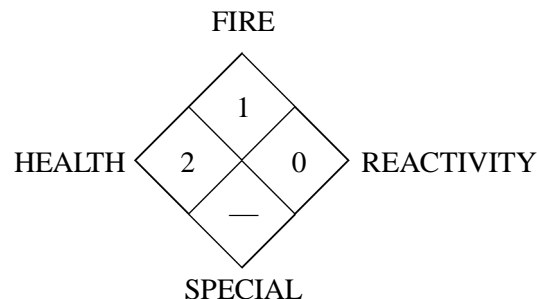
Class D-Division 2B, eye and skin irritant. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

HMIS RATING

HEALTH	*	2
FLAMMABILITY		1
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.