



MATERIAL SAFETY DATA SHEET

JACKHAMMER Baseboard and Buildup Stripper

Date Prepared: 04/19/2000
Date Revised: 04/19/2000

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name/Use: JACKHAMMER Baseboard and Buildup Stripper

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
Isopropyl alcohol	67-63-0	10 – 25
2-Butoxyethanol	111-76-2	10 – 25
Ethanolamine	141-43-5	10 – 25
Propane	74-98-6	1 – 3
N-Butane	106-97-8	1 – 1.5
Isobutane	75-28-5	1 – 1.5

See Section 8 for Exposure Limits NA - Not Applicable

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Opaque, Light Yellow Aerosol. Mild, Alcohol Odor. Contents Under Pressure. May Cause Eye and Skin Irritation.

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 skin irritation. Symptoms may include redness, rash and mild swelling.

SKIN ABSORPTION:

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 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).

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 thoroughly with plenty of water, then wash with soap and water. Remove saturated clothing. Get medical attention if irritation develops or persists. Thoroughly wash (or discard) clothing and shoes before reuse.

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: Not applicable.

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) and nitrogen oxides.

FIRE AND EXPLOSION HAZARDS:

Container is under pressure and may explode if exposed to excessive heat. Propellant retained by released material may be ignited by heat, sparks, flames, or other ignition sources.

FIRE FIGHTING INSTRUCTIONS:

This product is not aerosol flammable per flame extension test 16 CFR 1500.45. If this product is involved in a fire, 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. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Use spark-proof tools. Do not expose to heat. Do not use near sparks, flames or pilot lights. Do not puncture or incinerate container. 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. Do not store at temperatures above 120 F (49 C).

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 skin contact is possible, chemical-resistant clothing (e.g., gloves) should be worn.

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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:

<u>INGREDIENT(S)</u>	<u>OSHA PEL/STEL</u>	<u>ACGIH TLV/STEL</u>
Isopropyl alcohol	400 ppm (980 mg/m ³)/ 500 ppm (1225 mg/m ³)	400 ppm (983 mg/m ³)/ 500 ppm (1230 mg/m ³)
2-Butoxyethanol	25 ppm (120 mg/m ³)/ (Skin)	25 ppm (121 mg/m ³)/ (Skin)
Ethanolamine	3 ppm (8 mg/m ³)/ 6 ppm (15 mg/m ³)	3 ppm (7.5 mg/m ³)/ 6 ppm (15 mg/m ³)
Propane	1000 ppm (1800 mg/m ³)	2500 ppm (4508 mg/m ³)
N-Butane	800 ppm (1900 mg/m ³)	800 ppm (1900 mg/m ³)
Isobutane	NA	NA

NA - Not Available

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Aerosol
ODOR: Mild, Alcohol
APPEARANCE: Opaque, Light Yellow
pH: 11
PERCENT VOLATILE BY WEIGHT: 98
VAPOR PRESSURE: 72-74 psig at 64°F at 18°C
VAPOR DENSITY: Not Available
BOILING POINT: Not Available
FREEZING/MELTING POINT: Not Available
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: <1(water = 1)
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.

INCOMPATIBLE MATERIALS:

Oxidizers (e.g., bleach) and strong acids (e.g., hydrochloric acid).

11. TOXICOLOGICAL INFORMATION

ACUTE DATA:

This product may cause moderate to severe eye and mild skin irritation. Based on acute toxicity testing of a similar product, this product may be harmful if swallowed. It is not considered to be toxic by inhalation or skin absorption. 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:

<u>PRODUCT/INGREDIENT</u>	<u>ORAL LD₅₀ (rat)</u>	<u>DERMAL LD₅₀ (rabbit)</u>	<u>INHALATION LC₅₀ (rat)</u>
JACKHAMMER Baseboard and Buildup Stripper	Not Available	Not Available	>225 mg/L (1-hr)
Isopropyl alcohol	4710 mg/kg	12870 mg/kg	17000 ppm (4-hr)
2-Butoxyethanol	470 mg/kg	220 mg/kg	450 ppm (4-hr)
Ethanolamine	1720 mg/kg	1018 mg/kg	Not Available
Propane	Not Available	Not Available	Not Available
N-Butane	Not Available	Not Available	658 g/m ³ (4-hr)
Isobutane	Not Available	Not Available	57 pph (15-min)

SENSITIZATION DATA:

No data available.

CHRONIC DATA:

Prolonged overexposure to isopropyl alcohol by ingestion and inhalation has caused central nervous system effects in humans and laboratory animals; overexposure by ingestion has also caused liver effects in animals. Prolonged overexposure to high concentrations of ethanolamine by inhalation and ingestion has caused liver and kidney effects in laboratory animals. 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 isopropyl alcohol has caused slight fetotoxic and reproductive 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

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: Consumer Commodity
DOT/TDG HAZARD CLASS: ORM-D

SPECIAL SHIPPING NOTES:

The ORM-D hazard class applies to U.S. transportation only.

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, Pressure Generating.

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: None of the ingredients in this product are reportable under CERCLA.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

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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
Isopropyl alcohol	67-63-0	MA, NJ, PA
2-Butoxyethanol	111-76-2	MA, NJ, PA
Ethanolamine	141-43-5	MA, NJ, PA
Propane	74-98-6	MA, NJ, PA
N-Butane	106-97-8	MA, NJ, PA
Isobutane	75-28-5	MA, NJ, PA

NA - Not Applicable

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

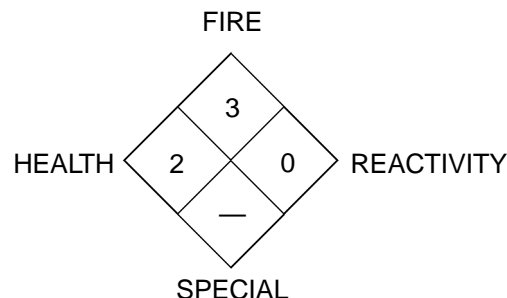
Class A, compressed gas; Class D-Division 2B, eye and skin irritant; Class D-Division 2B, chronic toxic effects.
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

HMIS RATING

HEALTH	*	2
FLAMMABILITY		3
REACTIVITY		0
PERSONAL PROTECTION		-

NFPA RATING



MSDS STATUS

Revision #: 1

This MSDS replaces the June 29, 1997 MSDS. Any changes in information are as follows:

In Section 1

Date Prepared [] Print CHEMTREC Phone Number

In Section 2

Potential Health Effects - Skin Absorption (text) Signs & Symptoms - Inhalation (text) Signs & Symptoms - Skin Absorption (text)

In Section 8

(Group Field) for Vapor Pressure Density Odor Threshold (text) (Group Field) for Boiling Point (Group Field) for Freezing Point Coeff Oil/Water (text)

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In Section 10
Toxicological (text)

In Section 14
OSHA Hazard Comm. Rule (text) WHMIS Class

APPROVED BY: EH&S/Regulatory Affairs
APPROVAL DATE: 04/19/2000

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.