



MATERIAL SAFETY DATA SHEET

**FULL CIRCLE Soil Retardant Spin
Bonnet Carpet Cleaner with DuPont
Teflon**

Date Prepared: 12/02/1997
Date Revised: 12/09/1997

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/Use: FULL CIRCLE Soil Retardant Spin Bonnet Carpet Cleaner with DuPont Teflon

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

INGREDIENT(S)	CAS NO.	% BY WEIGHT
2-Butoxyethanol	111-76-2	7 - 10
Isopropyl alcohol	67-63-0	3 - 5
Naphthalene sodium sulfonate	26264-58-4	1 - 3

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Clear, Light Straw Colored Liquid. Fresh Odor. May Cause Eye Irritation. Combustible.

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 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 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: 132°F 54.4°C TCC

FLAMMABLE LIMITS

UPPER EXPLOSIVE LIMIT: 12.7% (isopropyl alcohol)

LOWER EXPLOSIVE LIMIT: 2% (isopropyl alcohol)

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).

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. Avoid contact with eyes, skin 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:

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.

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EXPOSURE LIMITS:

<u>INGREDIENT(S)</u>	<u>OSHA PEL/STEL</u>	<u>ACGIH TLV/STEL</u>
2-Butoxyethanol	25 ppm (120 mg/m3)/ (Skin)	25 ppm (121 mg/m3)/ (Skin)
Isopropyl alcohol	400 ppm (980 mg/m3)/ 500 ppm (1225 mg/m3)	400 ppm (983 mg/m3)/ 500 ppm (1230 mg/m3)
Naphthalene sodium sulfonate	NE	NE

NE - Not Established

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Fresh
APPEARANCE: Clear, Light Straw Colored
pH: 6.8 to 7.2
PERCENT VOLATILE BY WEIGHT: 98
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: 1.003
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 (e.g., bleach).

11. TOXICOLOGICAL INFORMATION

ACUTE DATA:

Based on testing of a similar product, this product may cause eye irritation; it is not considered to be toxic by inhalation. The following data are available for product ingredients.

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<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)
Isopropyl alcohol	5840 mg/kg	13000 mg/kg	12000 ppm (8-hr)
Naphthalene sodium sulfonate	Not Available	Not Available	Not Available

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 2-butoxyethanol 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

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.

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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: 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.

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
Isopropyl alcohol	67-63-0	MA, NJ, PA
Naphthalene sodium sulfonate	26264-58-4	Not Listed

NA - Not Applicable

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

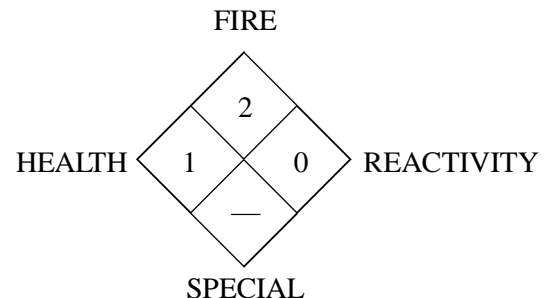
Class B-Division 3, combustible liquid; Class D-Division 2B, eye and skin irritant. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

HMIS RATING

HEALTH	*	2
FLAMMABILITY		2
REACTIVITY		0
PERSONAL PROTECTION		-

NFPA RATING



MSDS STATUS

New MSDS

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APPROVED BY: EH&S/Regulatory Affairs
APPROVAL DATE: 12/09/1997

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.