3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET

DIVISION: Building Service & Cleaning Products
TRADE NAME:
3M Brand Carpet Protector Concentrate
3M I.D. NUMBER: 61-5000-0262-3

ISSUED: MAY 16, 1988
SUPERSEDES: AUGUST 26, 1987
DOCUMENT: 10-2825-7

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE LIMITS VALUE	UNIT	TYPE	AUT
Water	7732-18-5	62.0 - 72.0	NONE	NONE	NONE	NON
2-Butoxyethanol	111-76-2	17.0 - 19.0	25	ppm	TWA	ACG
Isopropyl alcohol	67-63-0	3.0 - 5.0	400	ppm	TWA	ACG
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	0.0 - 1.0	1000	ppm	TWA	ACG
Fluoroaliphatic acid salt (non-hazardous)	NONE	5.0 - 8.0	NONE	NONE	NONE	NON
Surfactants (non-hazardous)	NONE	0.0 - 2.0	NONE	NONE	NONE	NON

SOURCE OF EXPOSURE LIMIT DATA:
- ACGIH: American Conference of Governmental Industrial Hygienists
- NONE: None Established

2. PHYSICAL DATA

BOILING POINT:..... 190.00 F
VAPOR PRESSURE:..... N/D
VAPOR DENSITY: ..... N/D
EVAPORATION RATE:..... N/D
SOLUBILITY IN WATER: ..... complete
SP. GRAVITY:..... 1.020 Water = 1
PERCENT VOLATILE: ..... ca. 90.00 %
VOLATILE ORGANICS: ..... ca. 245.00 gm/l
pH: 8.70
VISCOSITY: ..... N/D
APPEARANCE AND ODOR: Clear, liquid, mild odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 130.00 F T.C.C.
FLAMMABLE LIMITS - LEL: ..... N/D
FLAMMABLE LIMITS - UEL: ..... N/D
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
Carbon dioxide, foam, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES:
N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS:
N/A
NFPA-HAZARD-CODES: HEALTH 1 FIRE 2 REACTIVITY 0
UNUSUAL REACTION HAZARD: NONE

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Protect from freezing. Store above 50 F (49 C).

Abbreviations: N/D - Not Determined N/A - Not Applicable

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET

4. REACTIVITY DATA (continued)

HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, carbon dioxide

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Observe precautions from other sections. Extinguish all ignition sources. Cover with absorbent material. Collect spilled material. Place in a U.S. Dept. of Transportation approved metal container, and seal. Clean up residue with water.

RECOMMENDED DISPOSAL:
Discharge spent treatment solutions and small product quantities (< 5 gal.) into wastewater treatment system. Disposal alternative, incinerate after mixing with flammable material in a permitted hazardous waste facility. Empty container may be sanitary landfilled. Since regulations vary, consult applicable regulations or authorities before disposal.

ENVIRONMENTAL DATA:
Chemical Oxygen Demand (COD): 0.53 g/g. 5-Day Biochemical Oxygen Demand (BOD5): 0.32 g/g. 14-Day Biochemical Demand (BOD20): 0.39 g/g. 96-Hour LC50, Fathead minnow (Pimephales promelas): between 500 ml and 1000 ml/l.
SCAQMD Rule 443 and 443.1 - Non-photochemically reactive solvent; VOC - 245 g/l; VOC (less water and exempt) = 225 g/l.

6. SUGGESTED FIRST AID

EYE CONTACT:
Immediately flush eyes with plenty of water. Continue for 10 minutes holding eyelids open. Call a physician.

SKIN CONTACT:
Wash affected area with soap and water.

INHALATION:
Remove person to fresh air.

IF SWALLOWED:
Call a physician.

OTHER FIRST AID:
NONE

7. PRECAUTIONARY INFORMATION

Keep product away from heat, sparks and flames. Use only in areas adequately ventilated with enough air movement to remove vapors and prevent vapor build up. Prevent eye contact. Avoid prolonged breathing of vapors and prolonged or repeated skin contact. Keep

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET

3M

MSDS: 3M Brand Carpet Protector Concentrate
MAY 16, 1988

7. PRECAUTIONARY INFORMATION (continued)

container closed when not in use. Keep out of reach of children.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE LIMITS VALUE	UNIT	TYPE	AUTH
2-Butoxyethanol	120	mg/m3	TWA	ACGIH
2-Butoxyethanol	50	ppm	TWA	OSHA
2-Butoxyethanol	240	mg/m3	TWA	OSHA
Isopropyl alcohol	980	mg/m3	TWA	ACGIH
Isopropyl alcohol	500	ppm	STEL	ACGIH
Isopropyl alcohol	1225	mg/m3	STEL	ACGIH
Isopropyl alcohol	400	ppm	TWA	OSHA
Isopropyl alcohol	980	mg/m3	TWA	OSHA
1,1,2-trichloro-1,2,2-trifluoroethane	7600	mg/m3	TWA	ACGIH
1,1,2-trichloro-1,2,2-trifluoroethane	1250	ppm	STEL	ACGIH
1,1,2-trichloro-1,2,2-trifluoroethane	9500	mg/m3	STEL	ACGIH
1,1,2-trichloro-1,2,2-trifluoroethane	1000	ppm	TWA	OSHA
1,1,2-trichloro-1,2,2-trifluoroethane	7600	mg/m3	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:
- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: Liquid concentrate was moderately irritating to the eyes of laboratory animals. Direct contact may produce corneal opacity. The diluted concentrate did not show corneal opacity.

SKIN CONTACT: Liquid concentrate was found to be non-irritating and non-sensitizing to the skin of laboratory animals. 2-Butoxyethanol may be absorbed through the skin and may cause blood changes based on animal studies.

INHALATION: Acute inhalation studies conducted with laboratory animals indicated the spray to be non-toxic via inhalation.

INGESTION: Liquid concentrate was found to be slightly to moderately toxic to laboratory animals. The diluted concentrate was found to be practically non-toxic orally. 2-Butoxyethanol may cause blood changes based on animal studies.

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.