

3M General Offices

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3M Center
St. Paul, Minnesota 55144-1000
612/733-1110

MATERIAL SAFETY
DATA SHEET



DIVISION: HOME AND COMMERCIAL CARE DIVISION

TRADE NAME:

SCOTCHGARD(TM) BRAND PROTECTOR FOR FABRICS (OBSOLETE FORMULA),
CAT.NO.FC4101

3M I.D. NUMBER: 70-0701-4043-2 70-0701-4050-7 70-0701-4079-6 70-0701-6111-5
70-0701-8495-0 70-0702-8488-3 98-0211-0262-3 98-0211-0498-3

ISSUED: FEBRUARY 7, 1994
SUPERSEDES: JULY 30, 1992
DOCUMENT: 10-2520-4
INACTIVE

1. INGREDIENT	C.A.S. NO.	PERCENT		
1,1,1-TRICHLOROETHANE	71-55-6	90.0	-	94.0
CARBON DIOXIDE	124-38-9	3.0	-	4.0
METHYLAL	109-87-5	1.0	-	3.0
SEC-BUTYL ALCOHOL	78-92-2		<	2
TERT-BUTYL ALCOHOL	75-65-0		<	2
FLUORO-CHEMICAL POLYMER	TradeSecret	0.3	-	1.0
1,2,2-TRICHLOROTRIFLUOROETHANE	76-13-1	.1	-	.5

NOTE: The trichloroethane is an aerosol grade.

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS 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:

- 1,1,1-TRICHLOROETHANE
- SEC-BUTYL ALCOHOL
- TERT-BUTYL ALCOHOL
- 1,2,2-TRICHLOROTRIFLUOROETHANE

2. PHYSICAL DATA

BOILING POINT:..... ca. 175.00 F
VAPOR PRESSURE:..... ca. 100.0000 mmHg
MEASURED AT 20 DEGREES CENTIGRADE.
VAPOR DENSITY: ca. 4.55 Air = 1
EVAPORATION RATE:..... ca. 0.40 Ether = 1
SOLUBILITY IN WATER: neglig.
SP. GRAVITY:..... ca. 1.300 Water = 1
PERCENT VOLATILE: ca. 99.50 % by wt
VOLATILE ORGANICS: N/D
VOC LESS H2O & EXEMPT SOLVENT N/D
pH: N/A
VISCOSITY: N/D
MELTING POINT..... N/D
APPEARANCE AND ODOR: Liquid solution in aerosol container, colorless, chlorinated solvent odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
FLAMMABLE LIMITS - LEL: ca. 6.30 %
FLAMMABLE LIMITS - UEL: ca. 15.50 %
AUTOIGNITION TEMPERATURE: ... N/D

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

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

EXTINGUISHING MEDIA:

Water spray, Carbon dioxide, Dry chemical

SPECIAL FIRE FIGHTING PROCEDURES:

Note: pressurized aerosol cans

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers exposed to heat from fire may build pressure and explode.

NFPA-HAZARD-CODES: HEALTH 3 FIRE 1 REACTIVITY 1
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

Avoid high temperatures during storage

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

Exposure to extreme temperatures (>600 F) can produce toxic chlorinated by-products.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Ventilate area. Collect spilled material. Clean up residue. Place in an approved metal container.

RECOMMENDED DISPOSAL:

Do not puncture or burn cans in a household incinerator. Facility must be capable of handling aerosol cans. Combustion products will include HF and HCl. Dispose of empty cans in a sanitary landfill.

ENVIRONMENTAL DATA:

DATA NOT DETERMINED. PACKAGED UNITS: 3M ID NOS. 98-0211-0498-3 AND 98-0211-0377-9 DESCRIBE 12-OUNCE UNITS (FC-4101-12). 98-0211-0262-3 AND 70-0701-8495-0 DESCRIBE A 16-OUNCE UNIT (FC-4101-16). 70-0701-4079-6 DESCRIBES A 14-OUNCE UNIT (FC-4101-14). 70-0701-6111-5 DESCRIBES A 14-OUNCE UNIT (FC-4106). 70-0701-4043-2 DESCRIBES A 3-OUNCE UNIT (FC-4101-3). 70-0701-7426-6 DESCRIBES A 3-OUNCE UNIT (FC-4103). 70-0701-4050-7 DESCRIBES A 14-OUNCE UNIT (CAT.NO. 1412).

SARA HAZARD CLASS:

FIRE HAZARD: No **PRESSURE:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Wash affected area with soap and water.

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6. SUGGESTED FIRST AID (continued)

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

No need for first aid is anticipated.

OTHER FIRST AID:

NOTE TO PHYSICIANS: Exposure to 1,1,2-trichloro-1,2,2-trifluoroethane and/or 1,1,1-trichloroethane may increase "myocardial irritability." Do not administer sympathomimetic drugs (i.e. adrenaline) unless absolutely necessary. No specific antidote. Supportive care and treatment based on judgement of physician in response to the patient recommended.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact.

SKIN PROTECTION:

Avoid skin contact..

VENTILATION PROTECTION:

Use with appropriate local exhaust ventilation. Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

Maintain cross ventilation through use of fans and opening all doors and windows until the article is dry. Do not use in small rooms, bathrooms or closets. Use outdoors if possible. If application requires more than one can, wait sixty (60) minutes between spraying each can. NOTE; Once the product has dried, these warnings do not apply.

RESPIRATORY PROTECTION:

Avoid breathing of vapors..

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store at temperatures below 120 degrees F (49 degrees C). Keep container in well-ventilated area. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep away from heat, sparks, open flame, and other sources of ignition. Do not pierce or burn container, even after use.

OTHER PRECAUTIONARY INFORMATION:

Avoid breathing vapors. Use only as directed. Use only in areas

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7. PRECAUTIONARY INFORMATION (continued)

adequately ventilated to remove vapors and prevent vapor buildup.

Do not spray into eyes, mouth, or onto skin. Keep spray and vapors away from heat sources and open flames such as ovens, furnaces, stoves and dryers when in operation. Keep small children and pets out of area until treatment has thoroughly dried. Note: Once the product has dried, these warnings do not apply.

INGREDIENTS		EXPOSURE LIMITS		TYPE AUTH		SKIN*
	VALUE	UNIT				
1,1,1-TRICHLOROETHANE	350	ppm	TWA	ACGIH		
1,1,1-TRICHLOROETHANE	450	ppm	STEL	ACGIH		
1,1,1-TRICHLOROETHANE	350	ppm	TWA	OSHA		
1,1,1-TRICHLOROETHANE	450	ppm	STEL	OSHA		
CARBON DIOXIDE	5000	ppm	TWA	ACGIH		
CARBON DIOXIDE	30000	ppm	STEL	ACGIH		
CARBON DIOXIDE	10000	ppm	TWA	OSHA		
CARBON DIOXIDE	30000	ppm	STEL	OSHA		
METHYLAL	1000	ppm	TWA	ACGIH		
METHYLAL	1000	ppm	TWA	OSHA		
SEC-BUTYL ALCOHOL	100	ppm	TWA	ACGIH		
SEC-BUTYL ALCOHOL	100	ppm	TWA	OSHA		
TERT-BUTYL ALCOHOL	100	ppm	TWA	ACGIH		
TERT-BUTYL ALCOHOL	100	ppm	TWA	OSHA		
TERT-BUTYL ALCOHOL	150	ppm	STEL	OSHA		
FLUORO-CHEMICAL POLYMER	NONE	NONE	NONE	NONE		
1,2,2-TRICHLOROTRIFLUOROETHANE	1000	ppm	TWA	ACGIH		
1,2,2-TRICHLOROTRIFLUOROETHANE	1250	ppm	STEL	ACGIH		
1,2,2-TRICHLOROTRIFLUOROETHANE	1000	ppm	TWA	OSHA		
1,2,2-TRICHLOROTRIFLUOROETHANE	1250	ppm	STEL	OSHA		

* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

No adverse health effects are expected from eye contact.

Single exposure may cause:

Mild Eye Irritation: signs/symptoms can include redness,

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8. HEALTH HAZARD DATA (continued)

swelling, pain, and tearing.

SKIN CONTACT:

No adverse health effects are expected from skin contact.

INHALATION:

Intentional concentration and inhalation may be harmful or fatal.

Vapor and/or airborne mist may be harmful

Product use without ventilation in a closed area may be harmful or fatal.

Single overexposure, above recommended guidelines, may cause:

May be harmful if inhaled.

Cardiac Sensitization: sudden heart stoppage due to a reflex effect on the nerves which control the heart. This effect usually occurs only after inhalation of concentrated vapors such as in intentional abusive sniffing of certain solvents and propellants.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain.

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

Swallowing a relatively large amount of this material is unlikely to produce serious illness or death.

SECTION CHANGE DATES

HEADING

SECTION CHANGED SINCE JULY 30, 1992 ISSUE

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 material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.