

3M Canada Company
1840 Oxford Street East, Post Office Box 5757
London, Ontario N6A 4T1
Medical Emergency Telephone: (519) 451-2500, Ext. 2222
Transportation Emergency Telephone (CANUTEC): (613) 996-6666

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Material Safety Data Sheet
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Prepared by: Corporate Regulatory Services, 3M Canada Company
Telephone: (800) 364-3577, Fax: (800) 603-7758, Web Site: www.3M.ca

1 Product Identification

Tradename:
SCOTCHGARD(TM) HEAVY DUTY STAIN REMOVER
Product ID:
XN-1014-3526-3 61-5000-0317-5 61-5000-6134-8 FX-0100-0470-8
FZ-0100-0467-4 FZ-0100-0468-2 FZ-0100-0471-6 FZ-0100-0395-7
70-0709-9787-2 70-0709-9790-6 70-0711-6296-3
Intended Use of Product:
Carpet cleaner;
Division:
BUILDING & COMMERCIAL SERVICES

2 Composition/Information on Ingredients

Ingredient Name CAS Number Percentage

WATER	7732-18-5	40 - 70
TETRACHLOROETHYLENE	127-18-4	7 - 13
2-BUTOXYETHANOL	111-76-2	7 - 13
PETROLEUM GASES, LIQUEFIED, SWEETENED	68476-86-8	7 - 13
SODIUM LAURYL SULFATE	151-21-3	3 - 7

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

3 Hazards Identification

Critical Hazards:

Aerosol container contains flammable gas under pressure.
 Extremely flammable liquid and vapour.
 Toxic by inhalation, in contact with skin and if swallowed.
 Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
 Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.
 May be absorbed following inhalation and cause target organ effects.
 May be absorbed following ingestion and cause target organ effects.
 WARNING: Contains a chemical which can cause cancer. (127-18-4) (NTP anticipated human carcinogen, IARC possible human carcinogen 2B)
 See Sections 7 and 11 for further information.

4 First Aid Measures

Instructions for Eye Contact:

Immediately flush eyes with large amounts of water for at least 15 minutes. If signs/symptoms persist, get medical attention.

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Instructions for Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

Special Instructions:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

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5 Fire Fighting Measures

Flash point: Approx -88.3 C (propellant)
> 87.78 C (liquid)

Lower Explosive Limit (%): Not available

Upper Explosive Limit (%): Not available

Autoignition temperature: Not available

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

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Exposure Hazards during Fire:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:

Phosgene;
Toxic vapours, gases or particulates;
Carbon Monoxide;
Carbon Dioxide;
oxides of sulfur;
Hydrogen chloride;

Fire Fighting Procedures:

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear)

and

a self-contained breathing apparatus (SCBA).

NFPA: Health 2
NFPA: Fire 4
NFPA: Reactivity 0
NFPA: Unusual Reaction Hazard none

Special Instructions:

Aerosol container contains flammable material under pressure.

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6 Accidental Release Measures

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Personal Precautions:

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill.

Spill Response:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially

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available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue. Clean up residue with detergent and water. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

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7 Handling and Storage

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Storage Requirements:

Do not store containers on their sides. Store at temperatures below

120 degrees F (49 degrees C).

Incompatible Materials:

Store away from heat; Store out of direct sunlight. Sparks and/or Flames; Store away from acids; Store away from oxidizing agents.

Ventilation:

No data available.

Fire Prevention:

Extremely flammable liquid and vapour. Aerosol container contains flammable gas under pressure. Do not spray near flames or sources of ignition.

Explosion Prevention:

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Static Prevention:

Avoid static discharge.

Use Instructions:

Do not pierce or burn container, even after use. Avoid contact with oxidizing agents. For industrial or professional use only.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray.
The following should be worn alone or in combination, as appropriate, to prevent eye contact:
Safety glasses with side shields
Indirect vented goggles;

Hand Protection:

Wear appropriate gloves when handling this material.
The following glove material(s) are recommended:
butyl rubber;
nitrile rubber;

polyvinyl alcohol;

Skin Protection:

Avoid skin contact.
Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.
Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.
Keep out of the reach of children.

Recommended Ventilation:

Use in a well-ventilated area.

Do not use in a confined area or areas with little or no air movement.

Ingredient Exposure Data

WATER (7732-18-5)

LD50 (rat, oral)

> 90 ml/kg

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

TETRACHLOROETHYLENE (127-18-4)

LD50 (rat, oral)

2629 mg/kg

LC50 (rat, inhalation/4 hours)

5040 ppm

Exposure Limits

ACGIH: TWA 25 ppm (Table A3)

ACGIH: TWA 170 mg/m3 (Table A3)

ACGIH: STEL 100 ppm (Table A3)

ACGIH: STEL 685 mg/m3 (Table A3)

2-BUTOXYETHANOL (111-76-2)

LD50 (rat, oral)

470 mg/kg

LD50 (dermal, rabbit)

99 mg/kg

LC50 (rat, inhalation/4 hours)

450 ppm

Exposure Limits

ACGIH: TWA 25 ppm (Table A3) 20 ppm

PETROLEUM GASES, LIQUEFIED, SWEETENED (68476-86-8)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

SODIUM LAURYL SULFATE (151-21-3)

SCOTCHGARD(TM) HEAVY DUTY STAIN REMOVER

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LD50 (rat, oral)

1288 mg/kg

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

9 Physical and Chemical Properties

Physical form, Color, Odour:

Liquid; Aerosol; Clear;
yellow; mild odour;

Odour Threshold:

No data available.

pH:

Approximately 10

Boiling point/boiling range:	> 98.89 C
Melting point/melting range:	Not applicable
Vapour pressure:	Not Available
Water Solubility:	Complete
Specific gravity:	Approx 1 Water=1
Vapour density:	Not Available
Volatile organic compounds:	< 25 % CARB
Evaporation rate:	Not available
Viscosity:	Not available
Percent Volatile:	60 - 100 %

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10 Stability and Reactivity

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Conditions to Avoid:
Store away from heat; Store out of direct sunlight. Sparks and/or
Flames;

Materials to Avoid:
Strong oxidizing agents; Strong acids;

Hazardous Decomposition:
Phosgene;
Toxic vapours, gases or particulates;
Carbon Monoxide;
Carbon Dioxide;
oxides of sulfur;
Hydrogen chloride;

Stability and Reactivity:
Stable. Hazardous polymerization will not occur.

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11 Toxicological Information

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Effects from Eye Contact:
Moderate Eye Irritation: Signs/symptoms may include redness,
swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact:
Moderate Skin Irritation: Signs/symptoms can include localized
redness, swelling, itching, and dryness.

Effects from Inhalation:
Toxic by inhalation.
Respiratory Tract Irritation: Signs/symptoms may include cough,
sneezing, nasal discharge, headache, hoarseness, and nose and
throat pain.

May be absorbed following inhalation and cause target organ effects.

Intentional concentration and inhalation may be harmful or fatal.

Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

Sensitization Information:

No data available.

Carcinogenicity:

WARNING: Contains a chemical which can cause cancer. (127-18-4)
(NTP anticipated human carcinogen, IARC possible human carcinogen 2B)

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

No data available.

Product Based Information:

No data available.

Other Effects & Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include

headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Toxic by inhalation, in contact with skin and if swallowed.

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12 Ecological Information

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Environmental Data:

Mobility in Soil and Water:

The components labeled 'Highly volatile' are expected to be rapidly

removed from the aquatic and terrestrial compartments by vaporization.

Persistence/Biodegradability:

The components labeled 'readily biodegradable' are expected to

fully degrade in wastewater treatment and in most aerobic water or soil environments. The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Bioaccumulation Potential:

The components labeled 'Log Kow <3' have measured or calculated log Kow values <3 indicating they are unlikely to bioconcentrate to high concentrations in aquatic organisms by partitioning into lipid tissues

Ecotoxicity Data:

This product is estimated to be harmful to aquatic organisms (10 mg/L < Lowest LC50, EC50, or IC50 < or = 100 mg/L). The estimate assumes no synergistic, antagonistic or nonadditive effects. Product toxicity was estimated using the following equation:
 $(1/\text{Product LC50, EC50, or IC50}) = \text{SUM} (f_i/l_i)$ from $i = 1$ to $i = n$
for f_i = fraction of component i in product, l_i = lowest LC50, EC50, IC50 of component i , n = number of components in product. In addition, the data set used for the calculation was incomplete.

The product may be more toxic than indicated. The components labeled 'No information' have no environmental fate and effects data available. Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

Handling this product according to recommendations is important to minimize release to the environment. It is recommended that the environmental information included in this section be used to help determine appropriate handling of this product for your uses. The following statements have been assigned based on the estimated environmental distribution as a result of product use. Additional information may be available but was not included for environmental compartments unlikely to be significantly affected.

Other Effects and Information:

Product usages, or other lifecycle stages, are expected to release volatile organic compounds (VOCs) to the atmosphere. Regulations may restrict the release of VOCs because they contribute to the formation of ozone and smog. Regulatory definitions for VOC vary. Because of smog and other impacts, releases through evaporation or other means should be minimized to the extent possible.

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Product as Sold:

Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility. Facility must be capable of handling aerosol cans. Combustion products will include HCl. Facility must be capable of handling halogenated materials. Dispose of empty product containers in a sanitary landfill.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

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14 Transportation Information

Transportation of Dangerous Goods

TDG Classification: 61500061348 and 70071162963
Consumer Commodity
XN101435263 Limited
Quantity;

Special Information:

International Dangerous Goods Classification

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15 Regulatory Information

WHMIS Classification: A, B5, D1B, D2A, D2B

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the

following countries' chemical inventories, as noted:

TSCA - Toxic Substances Control Act (USA)

DSL - Domestic Substances List (Canada)

CICS - Chinese Inventory of Chemical Substances

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16 Other Information

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Reason for Reissue:

The following Sections and topics have been updated or revised:
Added French translation to MSDS

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

---End---