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Material Safety Data Sheet

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1 Chemical Product and Company Identification

Tradename:

3M(TM) TROUBLESHOOTER(TM) (INACTIVE)

Product ID:

FZ-0100-0465-8	XN-1015-5594-6	XN-1015-5593-8	CN-1006-4512-2
CN-1006-2976-1	CN-1006-1045-6	FZ-0100-0466-6	61-5000-0313-4
61-5000-6131-4	96-0000-0066-9	70-0709-9783-1	70-0709-9784-9

Intended Use of Product:

Cleaner;

Contains no ozone depleting chemicals.

Division:

COMMERCIAL CARE DIVISION

2 Hazards Identification

Critical Hazards:

Aerosol

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

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

May be absorbed through skin and cause target organ effects.

May be absorbed following inhalation and cause target organ effects.

May be absorbed following ingestion and cause target organ effects.

Very toxic by inhalation.

See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
WATER	7732-18-5	60 - 90
2-BUTOXYETHANOL	111-76-2	10 - 30
PETROLEUM GASES, LIQUEFIED, SWEETENED	68476-86-8	5 - 10
ETHANOLAMINE	141-43-5	3 - 7
ETHOXYLATED ALCOHOLS	68131-39-5	0.1 - 1.0
PERFUMES	Mixture	0.1 - 1.0

NOTE:

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

4 First Aid Measures

Instructions for Eye Contact:

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate 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.

5 Fire Fighting Measures

Flash point: Not applicable

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).

Exposure Hazards during Fire:

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

Combustion Products from Fire:

Irritant vapours or gases;

Carbon Monoxide;
 Carbon Dioxide;
 Oxides of nitrogen;
 Unusual Fire and Explosion Hazards
 None known.
 Fire Fighting Procedures:
 Wear full protective equipment (Bunker Gear) and a self-contained
 breathing apparatus (SCBA).
 NFPA: Health 2
 NFPA: Fire 2
 NFPA: Reactivity 0
 NFPA: Unusual Reaction Hazard
 none
 National Fire Protection Association (NFPA) hazard ratings are
 designed for use by emergency response personnel to address the
 hazards that are presented by short-term, acute exposure to a
 material under conditions of fire, spill, or similar emergencies.
 Hazard ratings are primarily based on the inherent physical and
 toxic properties of the material but also include the toxic
 properties of combustion or decomposition products that are known
 to be generated in significant quantities.
 Special Instructions:
 Aerosol

6 Accidental Release Measures

Personal Precautions:
 Observe precautions from other sections. Ventilate the area.
 WARNING ! A motor could be an ignition source and could cause
 flammable gases or vapors in the spill area to burn or explode. If
 it can be done safely, place the leaking container in an exhaust
 hood or well-ventilated area. Contain spilled material. Clean up
 residue. Place depressurized can and clean up wastes in a closed
 container approved for transportation by appropriate authorities.
 Environmental Procedures
 No data available.
 Methods for cleaning up
 No data available.
 Spill Response:
 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. Collect as much of the spilled material as

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possible. Dilute in a large excess of water. Carefully, and with
 stirring, add appropriate dilute acid such as sulfamic acid or
 vinegar. Confirm neutrality. For large spills, if necessary, get
 assistance from professional spill clean up team. For small spills,
 carefully neutralize spill by adding appropriate dilute acid such
 as vinegar. Work slowly to avoid boiling or spattering. Continue to
 add neutralizing agent until reaction stops. Let cool before
 collecting. Or use a commercially available caustic (alkaline or
 basic) spill clean-up kit. Follow kit directions exactly. Clean up
 residue with detergent and water. Collect the resulting residue

containing solution. Place in a closed container approved for transportation by appropriate authorities. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

7 Handling and Storage

Storage Requirements:

Do not store containers on their sides.

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:

Aerosol Do not spray near flames or sources of ignition. No smoking while handling this material.

Explosion Prevention:

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

Use Instructions:

Do not pierce or burn container, even after use. Avoid contact with oxidizing agents. Avoid eye contact with vapours, mists, or spray.

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:

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Wear appropriate gloves when handling this material.

The following glove material(s) are recommended:

butyl rubber;

neoprene;

nitrile rubber;

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):

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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.
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
AIHA TWA: 20 ppm
ACGIH: TWA 20 ppm (Table A3)
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.
ETHANOLAMINE (141-43-5)
LD50 (rat, oral) 1720 mg/kg
LC50 (rat, inhalation/4 hours) No data available.
Exposure Limits

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ACGIH: TWA 3 ppm
ACGIH: TWA 7.5 mg/m3
ACGIH: STEL 6 ppm
ACGIH: STEL 15 mg/m3

ETHOXYLATED ALCOHOLS (68131-39-5)
Specific Ingredient Data
No data available.
LD50 (rat, oral) 400 mg/kg
LC50 (rat, inhalation/4 hours) 1.10 g/m3
Exposure Limits
No data available.
PERFUMES (Mixture)
LD50 (rat, oral) No data available.
LC50 (rat, inhalation/4 hours) No data available.
Exposure Limits
No data available.

9 Physical and Chemical Properties

Physical form, Color, Odour:

Liquid; Aerosol; off-white;

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Odour Threshold:	milky;
pH:	No data available.
Boiling point/boiling range:	11 - 12
Melting point/melting range:	Approx 100 C
Vapour pressure:	Not applicable
Water Solubility:	Not Available
Specific gravity:	Complete
Vapour density:	Approx 1 Water=1
Volatile organic compounds:	Not Available
Evaporation rate:	10 - 49 % CARB
Viscosity:	Not Available
Percent Volatile:	78 - 100 %

10 Stability and Reactivity

Conditions to Avoid:
Store out of direct sunlight.
Heat;
Sparks and/or Flames;
Materials to Avoid:
Strong oxidizing agents;
Strong acids;
Hazardous Decomposition:
Irritant vapours or gases;
Carbon Monoxide;
Carbon Dioxide;

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Oxides of nitrogen;
Stability and Reactivity:
Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.
Effects from Skin Contact:
Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.
May be absorbed through skin and cause target organ effects.
Effects from Inhalation:
May be absorbed following inhalation and cause target organ effects.
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
Effects from Ingestion:
May be absorbed following ingestion and cause target organ effects.
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Sensitization Information:
No data available.
Carcinogenicity:
No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

Very toxic by inhalation.

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.

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12 Ecological Information

Environmental Data:

Persistence/Biodegradability:

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Ecotoxicity Data:

A 3M Product Environmental Data Sheet (PED) is available.

Ecofate Data:

A 3M Product Environmental Data Sheet (PED) is available.

Special statements for 2001/58/EC:

One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts.

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.

13 Disposal Considerations

Product as Sold:

Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste. Facility must be capable of handling aerosol cans. 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 Transport Information

Transportation of Dangerous Goods

TDG Classification:

Consumer Commodity

Special Information:

International Dangerous Goods Classification

15 Regulatory Information

WHMIS Classification:

A, D1A, 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:

CICS - Chinese Inventory of Chemical Substances

PICCS - Philippines Inventory of Commercial Chemical Substances

EINECS - European Inventory of Existing Commercial Chemical Substances

AICS - Australian Inventory of Chemical Substances

TSCA - Toxic Substances Control Act (USA)

DSL - Domestic Substances List (Canada)

KECI - Korean Existing Chemicals Inventory

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Update Tradename (Obsolete product)

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

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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.

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