

Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY

PRODUCT NAME: 3M (TM) FOOD SERVICE DEGREASER CONCENTRATE (Product No. 7, Twist 'n

Fill (TM) System)

MANUFACTURER: 3M

DIVISION: Commercial Care Division

ADDRESS: 3M Center

St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 04/11/2005 **Supercedes Date:** 03/29/2005

Document Group: 08-2576-0

Product Use:

Specific Use: FOOD SERVICE DEGREASER. REMOVES FOOD AND OILY SOILS FROM HARD

SURFACES. SAFE FOR STAINLESS STEEL, CERAMIC, TILE, PAINTED SURFACES,

CHROME, PLASTIC AND QUARRY TILE.

TREE HON 2: INCREEDIENT

Ingredient	C.A.S. No.	% by Wt
ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED	78330-21-9	60 - 90
ETHYLENE GLYCOL ETHYLHEXYL ETHER	1559-35-9	10 - 30
WATER	7732-18-5	7 - 13
DIETHYLENE GLYCOL MONO (2-ETHYLHEXYL) ETHER	1559-36-0	1 - 5
POLYOXYETHYLENE TRIDECYL ETHER	24938-91-8	< 1

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Liquid

Odor, Color, Grade: Clear, yellow liquid with mild ether odor.

General Physical Form: Liquid

Immediate health, physical, and environmental hazards:

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

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

Skin Contact:

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

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion:

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

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

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

A conservative assessment of this product indicates that its use and proper disposal are likely to present a low environmental risk. Potential use and misuse are unlikely to cause components to enter the environment in quantities or by routes that could cause adverse environmental impacts.

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4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

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.

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

If Swallowed: 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.

5.1 FLAMMABLE PROPERTIES

Flash Point > 212 °F [Test Method: Closed Cup]

OSHA Flammability Classification: Class IIIB Combustible Liquid

5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). Unusual Fire and Explosion Hazards: Non-flammable: ordinary combustible material.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6 ACCORDENTAL RELEASE ME

Accidental Release Measures: Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with water. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

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7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid breathing of vapors, mists or spray. Avoid skin contact with hot material. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Avoid contact with oxidizing agents. This product is not intended to be used without prior dilution as specified on the product label. Avoid skin contact.

7.2 STORAGE

Keep container in well-ventilated area. Store away from oxidizing agents. Store away from strong bases.

8.1 ENGINEERING CONTROLS

Use in a well-ventilated area. NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, special ventilation is not required.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray. NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, eye contact with the concentrate is not expected to occur.

If the product is not used with the Twist 'n Fill system or if there is an accidental release, the following eye protection is recommended: Indirect Vented Goggles.

8.2.2 Skin Protection

Avoid skin contact. Avoid skin contact with hot material. NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, skin contact with the concentrate is not expected to occur.

If the product is not used with the Twist 'n Fill system or if there is an accidental release, 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. Gloves made from the following material is recommended: Butyl Rubber

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, respiratory protection is not required.

If the product is not used with the Twist 'n Fill system or if there is an accidental release, select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface airpurifying respirator with organic vapor cartridges. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

None Established

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Specific Physical Form: Liquid

Odor, Color, Grade: Clear, yellow liquid with mild ether odor.

General Physical Form: Liquid

Flash Point > 212 °F [Test Method: Closed Cup]

Boiling point > 212 °F

Vapor Pressure = 27 [@ 131 °F]

Specific Gravity 0.975 - 0.986 [Ref Std: WATER=1]

pH 7-9

Solubility in Water Complete

Volatile Organic CompoundsApproximately < 1</th>VOC Less H2O & Exempt SolventsApproximately 0 - 17

Viscosity < 100 centipoise

SECTION TO STABILLEY AND REACE VE

Stability: Stable.

Materials and Conditions to Avoid: Strong bases; Strong oxidizing agents

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide Carbon dioxide **Condition**

During Combustion During Combustion

SECTION TETTO NICOLOGICA TENERALIZADO

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

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ECOTOXICOLOGICAL INFORMATION

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

CHEMICAL FATE INFORMATION

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

SECTION IS: DISPOSALEEDISM

Waste Disposal Method: 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.

EPA Hazardous Waste Number (RCRA): Not regulated

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

SECTION 14:TRANSPORT INFORMERTON

ID Number	UPC	ID Number	UPC
70-0708-3996-7	00-48011-23347-0	70-0708-3997-5	00-48011-23346-3
70-0710-0965-1	00-48011-23906-9	70-0710-0966-9	00-48011-23907-6
70-0711-9218-4	00-48011-23346-3		

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

NECTION IS: REGULATIORY INFORMATION

US FEDERAL REGULATIONS

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	% by Wt
DIETHYLENE GLYCOL MONO (2-	1559-36-0	1 - 5
ETHYLHEXYL) ETHER (GLYCOL ETHERS)		
ETHYLENE GLYCOL ETHYLHEXYL	1559-35-9	10 - 30
ETHER (GLYCOL ETHERS)		

STATE REGULATIONS

CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

The components of this material are in compliance with the new chemical notification requirements for the Korean Existing Chemicals Inventory.

All the components of this product are listed on China's Inventory of Chemical Substances.

The components of this product are listed on the Canadian Domestic Substances List.

INTERNATIONAL REGULATIONS

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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NFPA Hazard Classification

Health: 2 Flammability: 1 Reactivity: 0 Special Hazards: 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.

HMIS Hazard Classification

Health: 2 Flammability: 1 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS®) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

Revision Changes:

Section 8: Eye/face protection comment was added.

Section 8: Skin protection comment was added.

Section 8: Respiratory protection comment was added.

Section 8: Eye/face protection information was deleted.

Section 8: Skin protection - recommended gloves information was deleted.

Section 8: Eye/face protection text was deleted.

Section 8: Skin protection - recommended gloves text was deleted.

Section 8: Skin protection - protective clothing text was deleted.

Section 8: Eye/face protection information - punctuation - was deleted.

Section 8: Skin protection - recommended gloves - punctuation was deleted.

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