

### **Material Safety Data Sheet**

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### SECTIONAL PRODUCTIANDS

PRODUCT NAME: 3M(TM) INDUSTRIAL DEGREASER CONCENTRATE (Product No. 26, 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:** 08/10/2005 **Supercedes Date:** 04/11/2005

**Document Group:** 16-4731-2

**Product Use:** 

Specific Use: INDUSTRIAL DEGREASER

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Ingredient	C.A.S. No.	% by Wt
POLYETHOXYLATED ALCOHOL - NJTSN #027586004-8002	Trade Secret	15 - 40
2-AMINOISOBUTANOL	124-68-5	15 - 40
WATER	7732-18-5	10 - 30
ETHYLENE GLYCOL ETHYLHEXYL ETHER	1559-35-9	5 - 10
TRIMETHYL OCTADECYL AMMONIUM CHLORIDE	112-03-8	3 - 7
ISOPROPYL ALCOHOL	67-63-0	1 - 5
DIETHYLENE GLYCOL MONO(2-ETHYLHEXYL) ETHER	1559-36-0	1 - 5
D-LIMONENE	5989-27-5	<1

### 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Liquid

Odor, Color, Grade: Clear, red concentrate with mild clean and fresh fragrance

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: Combustible liquid and vapor. May cause chemical eye burns. May

cause allergic skin reaction. May cause severe skin irritation. May cause target organ effects.

#### 3.2 POTENTIAL HEALTH EFFECTS

#### **Eye Contact:**

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

#### **Skin Contact:**

Severe Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Inhalation:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

May be absorbed following inhalation and cause target organ effects.

#### 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.

#### **Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

### 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.

### SECTION 4 THRST AID MEASURES

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

3M MATERIAL SAFETY DATA SHEET 3M(TM) INDUSTRIAL DEGREASER CONCENTRATE (Product No. 26, Twist 'n Fill (tm) System) 08/10/2005

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.

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### 5.1 FLAMMABLE PROPERTIES

Flash Point

147 °F [Test Method: Closed Cup]

**OSHA Flammability Classification:** 

Class IIIA Combustible Liquid

#### 5.2 EXTINGUISHING MEDIA

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

#### **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: Combustible liquid and vapor.

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

### SECTION 6: ACCIDENTAL RELEAS

Accidental Release Measures: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. 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. Dilute in a large excess of water. Carefully, and with stirring, add appropriate dilute acid such as sulfamic acid or vinegar. Confirm neutrality. 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 metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. 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.

### SHORION TERMIND RINGANDES ROPAGER

#### 7.1 HANDLING

Keep out of the reach of children. This product is not intended to be used without prior dilution as specified on the product label. Avoid breathing of vapors, mists or spray. Avoid skin contact. Avoid eye contact with vapors, mists, or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep container closed when not in use. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. No smoking while handling this material. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with TWIST 'n FILL. Avoid contact with oxidizing agents.

#### 7.2 STORAGE

Keep container tightly closed. Store away from heat. Store out of direct sunlight. Store away from acids. Store away from oxidizing agents.

### SECTION 8: EXPOSUREXCONTROLSMENT ON EVER 1 KO SECTION

#### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. 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. 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

Ingredient	Authority	<u>Type</u> <u>Limit</u>	Additional Information
ISOPROPYL ALCOHOL	ACGIH	TWA 200 ppm	Table A4
ISOPROPYL ALCOHOL	ACGIH	STEL 400 ppm	Table A4
ISOPROPYL ALCOHOL	OSHA	TWA 400 ppm	Table Z-1A
ISOPROPYL ALCOHOL	OSHA	STEL 500 ppm	Table Z-1A

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

### SINCEPTON PERHAYSICALLAND EH

Specific Physical Form: Liquid

Odor, Color, Grade: Clear, red concentrate with mild clean and fresh fragrance

General Physical Form: Liquid

Flash Point 147 °F [Test Method: Closed Cup]

**Boiling point** > 212 °F

Density Approximately 1 [Ref Std: WATER=1]

Vapor Pressure Approximately 25 mmHg

Specific Gravity Approximately 1 [Ref Std: WATER=1]

pH Approximately 12

Solubility in Water Complete

Volatile Organic Compounds 3 - 7 % [Test Method: calculated per CARB title 2]

Percent volatile 15 - 40

VOC Less H2O & Exempt Solvents 30 - 90 g/1 [Test Method: calculated per CARB title 2]
Viscosity < 100 centipoise [Test Method: ACS METHOD]

## SECTION OF STABLETING AND THE

Stability: Stable.

Materials and Conditions to Avoid: Strong acids; Strong oxidizing agents; Reducing agents

Hazardous Polymerization: Hazardous polymerization will not occur.

### **Hazardous Decomposition or By-Products**

**Substance** 

Carbon monoxide Carbon dioxide Condition

During Combustion
During Combustion

### RETHON 13 HEBY COLDE

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

### SECTION DE ECOLOCICAT

#### ECOTOXICOLOGICAL INFORMATION

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

#### **CHEMICAL FATE INFORMATION**

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

### SECTION 13/2 DISPOSAL GONSADERACIO

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D002 (Corrosive)

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

### SECTION PAPERANCEORS IN TORING

ID Number

UPC

ID Number

UPC

70-0709-9194-1 70-0709-9251-9 00-48011-29664-7 00-48011-29677-7 70-0709-9195-8 70-0709-9252-7 00-48011-29665-4 00-48011-29678-4

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

## SECTION IS INDIQUIAN OR SERVED BY AS IC

#### US FEDERAL REGULATIONS

311/312 Hazard Categories:

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

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
ETHYLENE GLYCOL ETHYLHEXYL	1559-35-9	5 - 10
ETHER (GLYCOL ETHERS)		
TRIMETHYL OCTADECYL AMMONIUM	112-03-8	3 - 7
CHLORIDE (AMMONIA COMPOUNDS)		
DIETHYLENE GLYCOL MONO(2-	1559-36-0	1 - 5
ETHYLHEXYL) ETHER (GLYCOL ETHERS)		

#### STATE REGULATIONS

#### CHEMICAL INVENTORIES

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

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

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.

### SECTION IG: OF HERE IN HORIVEY

#### NFPA Hazard Classification

Health: 3 Flammability: 2 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: 3 Flammability: 2 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).

Reason for Reissue: Changed Physical Properties

**Revision Changes:** 

Section 2: Ingredient table was modified.

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# 3M MATERIAL SAFETY DATA SHEET 3M(TM) INDUSTRIAL DEGREASER CONCENTRATE (Product No. 26, Twist 'n Fill (tm) System) 08/10/2005

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.

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