

2 Ready-to-Use

3M General Offices

 3M Center
 St. Paul, MN 55144-1000
 1-800-364-3577 or (651) 737-6501 (24 hours)

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 MATERIAL SAFETY
 DATA SHEET

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DIVISION: COMMERCIAL CARE DIVISION

TRADE NAME:

 3M Brand HEAVY DUTY MULTI-SURFACE CLEANER Ready-to-Use
 (Product No. 2, Twist 'n Fill (tm) System)

 ISSUED: MAY 30, 2000
 SUPERSEDES: JULY 28, 1999
 DOCUMENT: 06-2120-1

1. INGREDIENT	C.A.S. NO.	PERCENT
WATER	7732-18-5	> 90
1-METHOXY-2-PROPANOL	107-98-2	1 5
ETHANOLAMINE	141-43-5	1 5

NOTE: IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE 24
 HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS PRODUCT.

2. PHYSICAL DATA

BOILING POINT:..... ca. 200 F
 VAPOR PRESSURE:..... N/D
 VAPOR DENSITY:..... N/D
 EVAPORATION RATE:..... ca. 1 Water = 1
 SOLUBILITY IN WATER:..... complete
 SP. GRAVITY:..... ca. 1 Water = 1
 PERCENT VOLATILE:..... > 95 %
 pH:..... ca. 10
 VISCOSITY:..... < 100 CPS
 MELTING POINT:..... N/A
 APPEARANCE AND ODOR: Liquid, colorless to light amber color; fresh scent

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... ca. 160 F T.C.C.
 FLAMMABLE LIMITS - LEL:..... N/D
 FLAMMABLE LIMITS - UEL:..... N/D
 AUTOIGNITION TEMPERATURE:..... N/D
 EXTINGUISHING MEDIA:
 Water spray, Carbon dioxide, Dry chemical, Foam, Alcohol-type foam
 SPECIAL FIRE FIGHTING PROCEDURES:
 Wear full protective clothing, including helmet, self-contained,
 positive pressure or pressure demand breathing apparatus, bunker coat
 and pants, bands around arms, waist and legs, face mask, and
 protective covering for exposed areas of the head.

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

UNUSUAL FIRE AND EXPLOSION HAZARDS:

No unusual fire or explosion hazards are anticipated. See Hazardous
 Decomposition section for products of combustion.

NFPA HAZARD CODES: HEALTH: 1 FIRE: 2 REACTIVITY: 0

UNUSUAL REACTION HAZARD: none

OSHA FIRE HAZARD CLASS: Class IIIA Combustible Liquid

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

None known.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:
 Carbon Monoxide and Carbon Dioxide, Irritant Vapors or Gases.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautions from other sections. Ventilate area. Contain
 spill. Cover with absorbent material. Collect spilled material.
 Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:

Discharge spent solutions and small quantities (less than 5 gal.(19
 L)) to a wastewater treatment system. Incinerate large quantities in
 an industrial or commercial incinerator.

ENVIRONMENTAL DATA:

A Product Environmental Data Sheet (PED) is available.

See MSDS for product concentrate.

REGULATORY INFORMATION:

Volatile Organic Compounds: < 10 %
 VOC Less H₂O & Exempt Solvents: < 10 %.

Since regulations vary, consult applicable regulations or authorities
 before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S.
 EPA Hazardous).

EPCRA HAZARD CLASS:

FIRE HAZARD: Yes PRESSURE: No 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:

Flush skin with large amounts of water. If irritation persists, get

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6. SUGGESTED FIRST AID (continued)

medical attention.

INHALATION:

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

IF SWALLOWED:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Avoid eye contact with vapor, spray, or mist.

SKIN PROTECTION:

Avoid skin contact.

VENTILATION PROTECTION:

Use in a well-ventilated area. Use with adequate dilution ventilation.

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray.

PREVENTION OF ACCIDENTAL INGESTION:

Wash hands after handling and before eating.

RECOMMENDED STORAGE:

Store away from heat. Keep container in well-ventilated area.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed.

OTHER PRECAUTIONARY INFORMATION:

NOTE: The above precautionary information presumes that this ready-to-use product has been diluted and dispensed from a TWIST'n FILL (tm) Chemical Dispenser.

HMIS HAZARD RATINGS: HEALTH: 0 FLAMMABILITY: 2 REACTIVITY: 0
PERSONAL PROTECTION: X (See precautions, section 7.)

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
WATER	NONE	NONE	NONE	NONE	
1-METHOXY-2-PROPANOL	100	ppm	TWA	ACGIH	

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7. PRECAUTIONARY INFORMATION (continued)

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
1-METHOXY-2-PROPANOL	150	ppm	STEL	ACGIH	
1-METHOXY-2-PROPANOL	100	ppm	TWA	OSHA	
1-METHOXY-2-PROPANOL	150	ppm	STEL	OSHA	
ETHANOLAMINE	3	ppm	TWA	ACGIH	
ETHANOLAMINE	6	ppm	STEL	ACGIH	
ETHANOLAMINE	3	ppm	TWA	OSHA	
ETHANOLAMINE	6	ppm	STEL	OSHA	
ETHANOLAMINE	6	mg/m3	TWA	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:

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

INHALATION:

Single overexposure, above recommended guidelines, may cause:

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

IF SWALLOWED:

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

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in

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8. HEALTH HAZARD DATA (continued)

vomitus, and blood in feces.

Aspiration Pneumonitis: signs/symptoms can include coughing,
difficulty breathing, wheezing, coughing up blood and pneumonia,
which can be fatal.

SECTION CHANGE DATES

HEADING SECTION CHANGED SINCE JULY 28, 1999 ISSUE

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