

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
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DIVISION: COMMERCIAL CARE DIVISION
 TRADE NAME:

3M BRAND TWIST 'N FILL HEAVY DUTY MULTISURFACE CLEANER READY TO USE
 ISSUED: August 06, 1999
 SUPERSEDES: March 03, 1997
 DOCUMENT: 06-6790-7

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	< 1.0
HYDROXYALKYL AMINE OXIDES.....	68478-65-9	< 1.0

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
 SPECIFIC GRAVITY:..... ca. 1 Water=1
 PERCENT VOLATILE:..... > 95 %
 pH:..... ca. 10
 VISCOSITY:..... < 100 centipoise
 MELTING POINT:..... N/A

APPEARANCE AND ODOR:
 Liquid, colorless to light amber color; fresh scent

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... ca. 700 C TCC
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.

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/CONDITIONS TO AVOID:

None known.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Irritant Vapors or Gases.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Ventilate area. Extinguish all ignition sources. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:

Small quantities (less than 5 gal.(19 L)) may be discharged to a wastewater treatment system. Incinerate in a permitted hazardous waste incinerator. Dispose of completely absorbed waste product in a

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5. ENVIRONMENTAL INFORMATION (continued)

hazardous waste facility.

ENVIRONMENTAL DATA:
Not determined.

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

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

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
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.

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

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7. PRECAUTIONARY INFORMATION (continued)

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.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
WATER.....	NONE	NONE	NONE	NONE	
1-METHOXY-2-PROPANOL.....	100	PPM	TWA	ACGIH	
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	
HYDROXYALKYL AMINE OXIDES.....	NONE	NONE	NONE	NONE	

* 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.

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8. HEALTH HAZARD DATA (continued)

SKIN CONTACT:

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

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
vomit, 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

PRECAUTIONARY INFO. SECTION CHANGED SINCE March 03, 1997 ISSUE

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