

MATERIAL SAFETY 3M  
DATA SHEET 3M Center  
St. Paul, Minnesota  
55144-1000  
1-800-364-3577 or (651) 737-6501 (24 hours)

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DIVISION: COMMERCIAL CARE DIVISION

TRADE NAME:

3M BRAND TWIST DEGREASER FOR KITCHENS

ID NUMBER/U.P.C.:

FZ-0100-0251-2 - - -

ISSUED: March 14, 2001

SUPERSEDES: August 21, 1996

DOCUMENT: 07-2429-4

1. INGREDIENT	C.A.S. NO.	PERCENT
WATER.....	7732-18-5	70.0 - 80.0
ETHOXYLATED ALCOHOL.....	Unknown	3.0 - 7.0
SODIUM METASILICATE.....	6834-92-0	3.0 - 7.0
TETRAPOTASSIUM DIPHOSPHATE.....	10124-52-4	3.0 - 7.0
DIPROPYLENE GLYCOL MONOMETHYL ETHER.....	34590-94-8	1.0 - 5.0
SODIUM CUMENE SULFONATE.....	Unknown	1.0 - 3.0
1-METHOXY-2-PROPANOL.....	107-98-2	1.0 - 3.0
FORMALDEHYDE.....	50-00-0	0.06

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.

This product contains the following toxic chemical or chemicals subject to  
the reporting requirements of Section 313 of Title III of the Emergency  
Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:

FORMALDEHYDE

## 2. PHYSICAL DATA

BOILING POINT:..... ca. 100 C  
VAPOR PRESSURE:..... N/D  
VAPOR DENSITY:..... N/D  
EVAPORATION RATE:..... N/D  
SOLUBILITY IN WATER:..... complete  
SPECIFIC GRAVITY:..... 1.09 Water=1  
PERCENT VOLATILE:..... ca. 80 %  
pH:..... ca. 13

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

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2. PHYSICAL DATA (continued)

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VISCOSITY:..... < 100 centipoise  
MELTING POINT:..... N/D

APPEARANCE AND ODOR:  
Liquid, clear, colorless

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3. FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT:..... N/A  
FLAMMABLE LIMITS - LEL:..... N/A  
FLAMMABLE LIMITS - UEL:..... N/A  
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:  
Water, Carbon dioxide, Dry chemical, 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: 2 FIRE: 0 REACTIVITY: 0  
UNUSUAL REACTION HAZARD: corrosive

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4. REACTIVITY DATA

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STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:  
Strong Acids.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:  
Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Oxides of Sulfur, Irritant Vapors or Gases.

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5. ENVIRONMENTAL INFORMATION

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SPILL RESPONSE:

Observe precautions from other sections. Dilute in a large excess of water. Carefully, and with stirring, add appropriate dilute acid such as sulfamic acid or vinegar. Confirm neutrality. Collect spilled material. Clean up residue with water.

RECOMMENDED DISPOSAL:

Flush spent solutions and small quantities (less than 5 gal. (19 L)) to a wastewater treatment system. Reduce discharge rate if foaming occurs. Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/D.  
VOC Less H<sub>2</sub>O & Exempt Solvents: N/D.

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

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

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6. SUGGESTED FIRST AID

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EYE CONTACT:

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

SKIN CONTACT:

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

INHALATION:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

IF SWALLOWED:

If swallowed, do NOT induce vomiting. Give victim two glasses of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

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7. PRECAUTIONARY INFORMATION

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EYE PROTECTION:

Avoid eye contact. Wear vented goggles.

SKIN PROTECTION:

Avoid prolonged or repeated skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber.

RECOMMENDED VENTILATION:

Use in a well-ventilated area.

RESPIRATORY PROTECTION:

Avoid breathing of vapors.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store away from acids. Keep container closed when not in use. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
WATER.....	NONE	NONE	NONE	NONE	
ETHOXYLATED ALCOHOL.....	NONE	NONE	NONE	NONE	
SODIUM METASILICATE.....	NONE	NONE	NONE	NONE	
TETRAPOTASSIUM DIPHOSPHATE.....	NONE	NONE	NONE	NONE	
DIPROPYLENE GLYCOL MONOMETHYL ETHER.....	100	PPM	TWA	ACGIH	Y
DIPROPYLENE GLYCOL MONOMETHYL ETHER.....	150	PPM	STEL	ACGIH	Y
DIPROPYLENE GLYCOL MONOMETHYL ETHER.....	100	PPM	TWA	OSHA	Y
DIPROPYLENE GLYCOL MONOMETHYL ETHER.....	150	PPM	STEL	OSHA	Y
SODIUM CUMENE SULFONATE.....	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	
FORMALDEHYDE.....	0.3	PPM	CEIL	ACGIH	
	SENSITIZER				
FORMALDEHYDE.....	0.75	PPM	TWA	OSHA	
	OSHA STANDARD 1910.1048				

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EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
FORMALDEHYDE.....	0.5	PPM	TWA	OSHA	
OSHA ACTION LEVEL					

\* 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:

Chemical Related Eye Burns (chemical corrosivity): signs/symptoms can include cloudy appearance of the cornea, chemical burns, pain, tearing, ulcers, impaired vision or loss of vision.

SKIN CONTACT:

Skin Burns (chemical corrosivity): signs/symptoms can include redness, swelling, itching, pain, blistering, ulceration, sloughing, and scar formation.

INHALATION:

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

Single overexposure, above recommended guidelines, may cause:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

IF SWALLOWED:

Damage to Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, nausea, abdominal tenderness, burns of mouth, difficulty swallowing, blood in vomitus, blood in feces, and ulceration.

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SECTION CHANGE DATES  
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PRECAUTIONARY INFO. SECTION CHANGED SINCE August 21, 1996      ISSUE

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