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MATERIAL SAFETY  
DATA SHEET



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DIVISION: HOME AND COMMERCIAL CARE DIVISION

TRADE NAME:

3M Brand HEAVY DUTY AIRCRAFT CLEANER Ready-to-Use .....  
(Product No. 72, Twist 'n Fill (tm) System)

ISSUED: FEBRUARY 28, 1997  
SUPERSEDES: DECEMBER 5, 1996  
DOCUMENT: 06-2221-7

1. INGREDIENT	C.A.S. NO.	PERCENT
WATER .....	7732-18-5	> 95
1-METHOXY-2-PROPANOL .....	107-98-2	1 - 5

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

2. PHYSICAL DATA

BOILING POINT:..... ca. 190 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:..... ca. 100 %  
pH:..... ca. 10  
VISCOSITY:..... < 100 CPS  
MELTING POINT..... N/A  
APPEARANCE AND ODOR: Liquid, clear; colorless to light green color; mild  
fragrance

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:

Not applicable.

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. Reduce discharge rate if  
 foaming occurs. 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: < 5 %.

VOC Less H<sub>2</sub>O & Exempt Solvents: < 5 %.

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.

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**6. SUGGESTED FIRST AID**

(continued)

**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 prolonged or repeated 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. Keep out of the reach of children.

**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.)

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7. PRECAUTIONARY INFORMATION (CONTINUED)

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
WATER .....	NONE	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	

\* 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
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level
- 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 similiar to those caused by inhalation and/or ingestion.

INHALATION:

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.

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:

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8. HEALTH HAZARD DATA (continued)

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in 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	DECEMBER 5, 1996	ISSUE
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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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