3M Center St. Paul, Minnesota 55144-1000 612/733 1110

Duns No.: 00-617-3082

MATERIAL SAFETY DATA SHEET



DIVISION: PRINTING AND PUBLISHING SYSTEMS

TRADE NAME:

3M DELETION FLUID

3M I.D. NUMBER: 77-9800-7205-0

ISSUED: JANUARY 3, 1989

SUPERSEDES: DECEMBER 21, 1988

DOCUMENT: 10-3258-0

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE VALUE UNIT	LIMITS TYPE_AUTH
2 Methoxyethanol	109-86-4	30.0 - 40.0	1 ppm	TWA 3M TWA ACGIH NONE NONE TWA ACGIH
2 Ethoxyethyl Acetate	111-15-9	30.0 - 40.0	5 ppm	
Water	7732-18-5	30.0 - 40.0	NONE NONE	
Ammonium fluoride	12125-01-8	1.0 - 5.0	2.5 mg/m3 F	

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- 3M: 3M Medical Department Guideline
- NONE: None Established

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

- 2 Methoxyethanol
- 2 Ethoxyethyl Acetate

2. PHYSICAL DATA

BOILING POINT:..... 207.00 F VAPOR PRESSURE:.... N/D VAPOR DENSITY: N/D N/D soluble

SP. GRAVITY:.... ca. 1.010 Water = 1

> 90.00 % 638.40 gm/l

6.00 8.0 CPS

APPEARANCE AND ODOR: Colorless-sweet, sharp odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:... 130 F TCC

N/D N/D

N/D

EXTINGUISHING MEDIA:

CO2, Foam, Dry Chemicals SPECIAL FIRE FIGHTING PROCEDURES:

None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

NFPA-HAZARD-CODES: HEALTH 2 FIRE 2 REACTIVITY 0 UNUSUAL REACTION HAZARD: None

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4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
N/A

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe all precautions in Section 7. Extinguish all ignition sources. Collect spilled material, clean up residue and place in Dept. of Transporatation approved container. Use absorbent material as needed in cleanup procedure.

RECOMMENDED DISPOSAL:

Reclamation or incineration in a permitted hazardous waste facility capable of meeting applicable regulatory requirements for destruction and removal is preferred. Otherwise, dispose in accordance with applicable regulations.

ENVIRONMENTAL DATA:

U.S. EPA Hazardous Waste Number: D001(ignitable); SCAQMD Rules 443 and 443.1; Nonphotochemically Reactive; gms V0C/L: 638.4; gms V0C/(L-Vw-Ves): 921; Manufactured after July 1, 1987

SARA HAZARD CLASS:

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

6. SUGGESTED FIRST AID

EYE CONTACT:

In case of eye contact, immediately flush eyes with plenty of water for at least ten minutes and contact a physician.

SKIN CONTACT:

In case of skin contact, wash affected area with soap and water.

INHALATION:

If respiratory irritation or other symptoms occur, move to fresh air. If breathing has stopped, give artificial respiration and send for medical assistance.

IF SWALLOWED:

If swallowed, immediately induce vomiting and contact a physician.

OTHER FIRST AID:

NONE

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7. PRECAUTIONARY INFORMATION

Keep away from flame, heat, sparks and other sources of ignition. Use only in well ventilated areas. Keep container tightly closed when not in use. Do not smoke during use. Avoid eye and skin contact. Wear protective gloves when handling. Avoid breathing vapor. Do not take internally. Keep out of reach of children.

ADDITIONAL EXPOSURE LIMITS

		EXPOSURE	LIMITS	
INGREDIENTS	VALUE	UNIT	TYPE	AUTH
2 Methoxyethanol	5	ppm	TWA	ACGIH
2 Methoxyethanol	16	mg/m3	TWA	ACGIH
2 Methoxyethanol	25	ppm	TWA	OSHA
2 Methoxyethanol	80	mg/m3	TWA	OSHA
2 Ethoxyethyl Acetate	27	mg/m3	TWA	ACGIH
2 Ethoxyethyl Acetate	100	ppm	TWA	OSHA
2 Ethoxyethyl Acetate	540	mg/m3	TWA	OSHA
Ammonium fluoride	2.5	mg/m3 F	AWT	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: Liquid and vapor may cause eye irritation.

SKIN CONTACT: May cause skin irritation. May be absorbed through the skin in harmful amounts. May cause birth defects, male reproductive changes and blood disorders on excessive contact.

INHALATION: May cause respiratory system irritation, nervous system impairment, birth defects, male reproductive system changes and blood disorders. Symptoms of acute over exposure may include drowsiness, dizziness, weakness, fatigue, unconciousness and death. 2-Methoxyethanol has also caused lung and kidney damage in laboratory animals.

INGESTION: May cause digestive system irritation, birth defects, male reproductive system changes and blood disorders.

SECTION CHANGE DATES

HEADING	SECTION	CHANGED	SINCE	DECEMBER	21,	1988	ISSUE
INGREDIENTS	SECTION	CHANGED	SINCE	DECEMBER	21,	1988	ISSUE
PHYSICAL DATA	SECTION	CHANGED	SINCE	DECEMBER	21,	1988	ISSUE
ENVIRON. DATA	SECTION	CHANGED	SINCE	DECEMBER	21,	1988	ISSUE
HEALTH HAZD. DATA	SECTION	CHANGED	SINCE	DECEMBER	21,	1988	ISSUE

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

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.