



MATERIAL SAFETY  
DATA SHEET

3M  
3M CENTER  
ST. PAUL, MINNESOTA  
55144-1000  
612/733-1110

Duns No.: 00-617-3082

DIVISION: Printing Products  
TRADE NAME: 3M DUPLICATOR FOUNTAIN CONCENTRATE  
3M I.D. NUMBER: 77-9800-7230-8 77-9800-7231-6 77-9800-7234-0

ISSUED: NOVEMBER 4, 1985  
SUPERSEDES: SEPTEMBER 1, 1982  
DOCUMENT: 10-3209-3

1. INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS
Water	7732-18-5	30.0- 40.0	none 5
Ethylene glycol	107-21-1	25.0- 30.0	50 ppm ceili 1
Glycerol (glycerine)	56-81-5	25.0- 30.0	10mg/m3 Mist 1
Formaldehyde	50-00-0	0.0- 5.0	1 ppm TWA 1
Ammonium phosphate monobasic	7722-76-1	0.0- 5.0	none 5

SOURCE OF EXPOSURE LIMIT DATA

1. ACGIH THRESHOLD LIMIT VALUES
2. FEDERAL OSHA PERMISSIBLE EXPOSURE LIMIT
3. 3M EXPOSURE GUIDELINES
4. CHEMICAL MANUFACTURER RECOMMENDED GUIDELINES
5. NONE ESTABLISHED

ABBREVIATIONS

N/D - NOT DETERMINED  
N/A - NOT APPLICABLE

2. PHYSICAL DATA

BOILING POINT:	219.2 F	SOLUBILITY IN WATER:	Soluble
VAPOR PRESSURE:	N/D	SP. GRAVITY (WATER=1):	1.1
VAPOR DENSITY (AIR=1):	N/D	PERCENT VOLATILE:	50.0 - 60.0
EVAPORATION RATE (=1):	N/D	VISCOSITY:	8.4 cps
APPEARANCE AND ODOR:	Blue clear - No odor	pH:	3.3-4.0

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (N/A):  
FLAMMABLE LIMITS - LEL: N/A UEL: N/A

EXTINGUISHING MEDIA:  
CO2, Foam, Dry chemicals  
SPECIAL FIRE FIGHTING PROCEDURES:

None

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Contains glycerol; contact with strong oxidizers may produce explosion.

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**4. REACTIVITY DATA**

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**STABILITY:** STABLE

**INCOMPATIBILITY - MATERIALS TO AVOID:**

N/A

**HAZARDOUS POLYMERIZATION:** MAY NOT OCCUR

**HAZARDOUS DECOMPOSITION PRODUCTS:**

N/A

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**5. ENVIRONMENTAL INFORMATION**

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**SPILL RESPONSE:**

Collect spilled material. Wash down area with water as necessary to remove residue.

**RECOMMENDED DISPOSAL:**

Reclaim or incinerate in a commercial or municipal facility in accordance with applicable regulations, or dispose in a biological waste water treatment system in accordance with applicable regulations.

**ENVIRONMENTAL DATA:**

None.

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**6. SUGGESTED FIRST AID**

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**EYE CONTACT:**

In case of eye contact, 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 symptoms occur, move to fresh air. If unconscious, administer artificial respiration and send for medical assistance.

**IF SWALLOWED:**

If swallowed, induce vomiting and contact a physician. Do not attempt to induce vomiting in someone who is unconscious.

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**7. PRECAUTIONARY INFORMATION**

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**Avoid eye and skin contact. Wear suitable eye and skin protection. Use with adequate ventilation. Do not take internally. Keep container closed when not in use. Keep out of reach of children.**

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8. HEALTH HAZARD DATA

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Eye Contact: Liquid and vapors may cause eye irritation. Symptoms may include stinging, burning sensation, tearing and redness.

Skin Contact: May cause skin irritation. May cause allergic skin reactions in some individuals.

Inhalation: Vapors may cause respiratory system irritation and nervous system impairment. Symptoms may include dizziness, headache, nausea, vomiting and abdominal pain. Formaldehyde has been shown to cause nasal cancer in laboratory animals on prolonged exposure (NTP, IARC). (In high concentrations ethylene glycol can also cause unconsciousness and death. Formaldehyde can cause allergic reactions, liver and kidney damage, blood changes, predisposition to respiratory infection and neurological changes. Due to the low concentration of these chemicals in the product, these effects are not anticipated.)

Ingestion: May cause digestive system irritation, kidney damage and nervous system damage. Symptoms may include abdominal pain, headache, dizziness, nausea, vomiting, thirst, incoordination, malaise, backache, stupor, convulsions, accumulation of fluid in the lungs, blood changes, protein and oxalate crystals in the urine, unconsciousness and death. Other: Formaldehyde is genotoxic in a number of assays and is mutagenic in human cells in culture as well as in other mammalian cells, drosophila, fungi and bacteria. It is a weak promoter of carcinogens in cell culture and on mouse skin. carcinageus in cell culture and on mouse skin.

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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.