



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 R DEVELOPER
3M I.D. NUMBER: 77-9800-7203-5 77-9801-1133-8
ISSUED: NOVEMBER 5, 1985
SUPERSEDES: SEPTEMBER 1, 1982
DOCUMENT: 10-3217-6

1. INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	
Water	7732-18-5	60.0- 70.0	none	5
2-Heptanone	110-43-0	10.0- 20.0	5 ppm	1
n-Amyl acetate	628-63-7	0.0- 10.0	100 ppm	1
Bisphenol A epoxy resin	80-05-7	0.0- 5.0	none	5
Surfactant	N/D	0.0- 5.0	none	5
3-Heptanone	106-35-4	0.0- 5.0	50 ppm	1

- 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:	212 F	SOLUBILITY IN WATER:	Emulsion
VAPOR PRESSURE:	N/D	SP. GRAVITY (WATER=1):	0.96
VAPOR DENSITY (AIR=1):	N/D	PERCENT VOLATILE:	Approx. 90
EVAPORATION RATE (=1):	N/D	VISCOSITY:	700 cps
APPEARANCE AND ODOR:	Red, Viscuous - Mild Ketone Odor	pH:	7.70

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3. FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT (PMCC): 98.5 F
FLAMMABLE LIMITS - LEL: N/D UEL: N/D

EXTINGUISHING MEDIA:

CO2, Foam, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES:

None

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

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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:

Observe all precautions in Section 7. Extinguish all ignition sources. Collect spilled material, clean up residue and place in Dept. of Transportation 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)

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6. SUGGESTED FIRST AID

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EYE CONTACT:

Immediately flush eyes with plenty of water for at least ten minutes and contact a physician.

SKIN CONTACT:

N/A

INHALATION:

If respiratory irritation or other symptoms occur, move to fresh air.

IF SWALLOWED:

N/A

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7. PRECAUTIONARY INFORMATION

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Keep away from heat, sparks, flame and other sources of ignition. Avoid eye contact. Protective eyewear is recommended. Avoid breathing vapor. Use only with adequate ventilation. 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: Based on studies in laboratory animals, the product is expected to cause moderate to severe irritation and corneal injury on direct contact. Vapors may also cause eye irritation.

Skin Contact: No adverse health effects are expected based on studies in laboratory animals.

Inhalation: May cause respiratory system irritation and nervous system impairment. (2-Heptanone can cause decreased respiratory and heart rates, unconsciousness and death. n-Amyl acetate can cause liver damage, headache, dizziness, nausea, vomiting, drowsiness, digestive system irritation, cough fatigue, rapid breathing, unconsciousness and may cause worsening of symptoms in persons with obstructive airway disease. In dry form, the bisphenol A epoxy resin can cause mechanical irritation of the respiratory tract. 3-Heptanone can cause symptoms similar to those of 2-Heptanone.)

Ingestion: No adverse health effects are expected based on studies in laboratory animals. **Other:** 2-Heptanone may enhance liver and kidney damage caused by chloroform.

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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.