

## 3M General Offices

00-02  
10793M 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 SUBTRACTIVE DEVELOPER

3M I.D. NUMBER: XP-1414-3077-5 XP-1414-3078-3 77-9800-7360-3 77-9801-3419-9  
77-9801-6428-7 77-9801-6711-6 77-9801-6712-4 77-9801-8715-5

ISSUED: APRIL 18, 1989

SUPERSEDES: MARCH 14, 1989

DOCUMENT: 10-3218-4

1. INGREDIENT	C.A.S. NO.	PERCENT	----- EXPOSURE -----		LIMITS -----	
			VALUE	UNIT	TYPE	AUTH
Water	7732-18-5	60.0 - 70.0	NONE	NONE	NONE	NONE
Propyl Alcohol	71-23-8	30.0 - 40.0	200	ppm	TWA	ACGIH
Ammonium Sulfite	10196-04-0	1.0 - 5.0	NONE	NONE	NONE	NONE
Ammonium Phosphate	7722-76-1	1.0 - 5.0	NONE	NONE	NONE	NONE

## SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- NONE: None Established

## 2. PHYSICAL DATA

BOILING POINT:..... 180 F  
 VAPOR PRESSURE:..... N/D  
 VAPOR DENSITY: ..... N/D  
 EVAPORATION RATE:..... N/D  
 SOLUBILITY IN WATER: ..... Soluble  
 SP. GRAVITY:..... 0.947  
 PERCENT VOLATILE: ..... 90  
 VOLATILE ORGANICS: ..... 350.00 gm/l  
     See Environmental Data  
 pH: ..... 6.75 - 7.2  
 VISCOSITY: ..... 5.5 cps  
 APPEARANCE AND ODOR: Clear - Mild Odor

## 3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 87 F TCC  
 FLAMMABLE LIMITS - LEL: ..... N/D  
 FLAMMABLE LIMITS - UEL: ..... N/D  
 AUTOIGNITION TEMPERATURE: ... N/D  
 EXTINGUISHING MEDIA:  
     CO2, Foam, Dry Chemical  
 SPECIAL FIRE FIGHTING PROCEDURES:  
     None  
 UNUSUAL FIRE AND EXPLOSION HAZARDS:  
     None  
 NFPA-HAZARD-CODES: HEALTH 2 FIRE 3 REACTIVITY 0  
 UNUSUAL REACTION HAZARD: None

## 4. REACTIVITY DATA

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

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

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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); SCAQMD Rules  
443 and 443.1; Nonphotochemically Reactive; gms VOC/L: 350.0;  
gms VOC/(L-Vw-Ves): 811.4; Manufactured after July 1, 1987

**SARA HAZARD CLASS:**

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

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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 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, administer artificial respiration and send for medical assistance.

**IF SWALLOWED:**

Do not induce vomiting. If person is conscious give one to two glasses of water. Immediately call a physician.

**OTHER FIRST AID:**

NONE

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**7. PRECAUTIONARY INFORMATION**

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Avoid eye contact. Avoid skin contact. Avoid prolonged exposure to elevated concentrations of vapors. Use local and general ventilation to maintain vapor levels within established Threshold Limit Values. Wear 3M 8712 Organic Vapor Respirator (or equivalent) for supplemental protection where needed (eg. spills or cleanup activities). Wear Nitrile rubber gloves, eye protection, and other protective clothing as needed to prevent contact during handling, transferring, equipment cleanups and spill cleanups. Keep container closed when not in use. Do not take internally. Keep away from flame,

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**7. PRECAUTIONARY INFORMATION (continued)**

heat sparks and other sources of ignition. Keep out of reach of children.

**ADDITIONAL EXPOSURE LIMITS**

INGREDIENTS	----- EXPOSURE LIMITS -----	
	VALUE	UNIT TYPE AUTH
Propyl Alcohol	200	ppm TWA OSHA
Propyl Alcohol	500	mg/m3 TWA OSHA
Propyl Alcohol	250	ppm STEL OSHA
Propyl Alcohol	625	mg/m3 STEL OSHA
Propyl Alcohol	500	mg/m3 TWA ACGIH
Propyl Alcohol	250	ppm STEL ACGIH
Propyl Alcohol	625	mg/m3 STEL ACGIH

**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 on prolonged or repeated contact. Propyl alcohol may be absorbed through the skin in harmful amounts.

Inhalation: May cause respiratory system irritation and temporary nervous system impairment. Symptoms may include drowsiness, headache and incoordination. Inhalation of sulfites can result in an increased asthmatic response in susceptible individuals.

Ingestion: May cause digestive system irritation and temporary nervous system impairment. Symptoms may include drowsiness, headache, incoordination, abdominal pain, cramps, nausea, vomiting, diarrhea and unconsciousness. (Propyl alcohol can cause liver changes or repeated ingestion.) Ingestion of sulfites can result in an increased asthmatic like response in susceptible individuals.

**SECTION CHANGE DATES**

INGREDIENTS	SECTION CHANGED SINCE MARCH 14, 1989 ISSUE
ENVIRON. DATA	SECTION CHANGED SINCE MARCH 14, 1989 ISSUE

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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.