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M A T E R I A L   S A F E T Y   D A T A   S H E E T  
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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
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THIS MATERIAL SAFETY DATA SHEET IS AVAILABLE IN SPANISH UPON REQUEST.  
LOS DATOS DE SEGURIDAD DEL PRODUCTO PUEDEN OBTENERSE EN ESPANOL SI LO  
REQUIERE.

PRODUCT NAME : D-1001 MULTIPURPOSE CERAMIC ADHESIVE  
UPC NUMBER: : 7079860654, 7079860656, 7079860658, 7079825180,  
7079825182  
: Adhesive

MANUFACTURER: DAP INC.  
2400 BOSTON ST.  
BALTIMORE, MD 21224

24 HOUR EMERGENCY:  
TRANSPORTATION: 1-800-535-5053  
MEDICAL: 1-800-327-3874

PREPARE DATE: 02/02/99  
REVISION NO. : 7  
REVISION DATE: 07/17/99

GENERAL INFORMATION:  
DAP INC.: 1-800-543-3840

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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS  
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ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
01	Mineral spirits	8052-41-3	1.0-5.0 %
02	Ethylene glycol	107-21-1	1.0-5.0 %

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EXPOSURE LIMITS  
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ITEM	ACGIH		OSHA		COMPANY TLV-TWA	SKIN
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING		
01	100 ppm	N.E.	100 ppm	N.E.	N.E.	NO
02	N.E.	50 ppm*	N.E.	50 ppm	N.E.	NO

(See Section 16 for abbreviation legend), \* - TLV-Ceiling Value

Remaining ingredients are not considered hazardous per the OSHA Hazard  
Communication Standard.

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor  
OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states.

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SECTION 3 - HAZARDS IDENTIFICATION  
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EMERGENCY OVERVIEW: CAUTION! Harmful or fatal if swallowed. May cause eye  
or skin irritation.

POTENTIAL HEALTH EFFECTS:

(Continued on Page 2)

SECTION 3 - HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated contact with skin may cause irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: Vapor may irritate nose and upper respiratory tract. Vapor inhalation may affect the brain or nervous system causing dizziness, headache or nausea. May irritate eyes, skin, nose and respiratory tract.

EFFECTS OF OVEREXPOSURE - INGESTION: Ingestion of ethylene glycol in excess may lead to respiratory cardiac failure as well as kidney and liver damage.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Ingestion of Ethylene Glycol in excess may lead to respiratory and cardiac failure, and kidney and liver damage. Prolonged or repeated contact with skin may cause irritation.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: None known.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INGESTION

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with large quantities of water until irritation subside

SKIN CONTACT: Wash with soap and water.

INHALATION: Remove to fresh air.

INGESTION: DO NOT INDUCE VOMITING. Contact a physician or Regional Poison Control Center immediately.

COMMENTS: Call 1-800-327-3874 if irritation or complications arise from any of the above exposures.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:>200 F  
(SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A.  
UPPER EXPLOSIVE LIMIT: N.A.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

(Continued on Page 3)

SECTION 5 - FIRE FIGHTING MEASURES

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Use absorbent material or scrape up dried material and place into containers.

SECTION 7 - HANDLING AND STORAGE

HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. Avoid prolonged or repeated contact with skin. Avoid contact with eyes.

STORAGE INFORMATION: Store away from caustics and oxidizers. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Do not store at temperatures above 120 degrees F.

OTHER PRECAUTIONS: Use in a well ventilated area. Provide fresh air such that chemical odors cannot be detected during use and while drying. Construction and repair activities can adversely affect indoor air quality. Consult with the occupants or a representative (i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize any impact.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good mechanical ventilation and local exhaust.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Not required under normal usage and adequate ventilation.

EYE PROTECTION: Safety glasses with side shields recommended.

SKIN PROTECTION: Gloves recommended for repeated or prolonged contact with skin.

OTHER PROTECTIVE EQUIPMENT: None.

(Continued on Page 4)

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

HYGIENIC PRACTICES: Although this product is not considered an eye irritant, inhalation hazard, or a skin contact hazard under normal conditions, it is advisable that personnel minimize skin contact, inhalation of vapors, and eye contact. Remove contaminated clothing and wash before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 210 - 220 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Sweet Odor		
APPEARANCE	: Off white color	EVAPORATION RATE:	Is slower than Butyl Acetate
SOLUBILITY IN H2O	: N.E.		
SPECIFIC GRAVITY	: 1.5950		
VAPOR PRESSURE	: 17.5 mm Hg@68F.		
PHYSICAL STATE	: Paste	VISCOSITY	: 278,800-304,400

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizers and caustics.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e. COx, NOx

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

The toxicological properties of this material are unknown, however, based on the toxicity of its constituents, it is expected to have relatively low toxicity.

SECTION 12 - ECOLOGICAL INFORMATION

No Information.

(Continued on Page 5)

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SECTION 13 - DISPOSAL CONSIDERATIONS  
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WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal, State, and Local Standards. This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulations, 40 CFR Section 261. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded (40 CFR 261): None

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SECTION 14 - TRANSPORTATION INFORMATION  
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DOT PROPER SHIPPING NAME: Not Regulated by D.O.T.

DOT HAZARD CLASS: NONE

DOT UN/NA NUMBER: NONE                    PACKING GROUP: NONE

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other mode of transportation and/or to non-domestic destinations.

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SECTION 15 - REGULATORY INFORMATION  
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U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313:

This product contains the following substances 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:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT % RANGE
Ethylene glycol	107-21-1	1.0-5.0 %

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME -----	CAS NUMBER
No information available. All ingredients are listed on the TSCA inventory	

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME -----	CAS NUMBER
Water	7732-18-5
Proprietary acid polymer	TSRN618608-5144P

(Continued on Page 6)

SECTION 15 - REGULATORY INFORMATION

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----	CAS NUMBER
Water	7732-18-5
Proprietary acid polymer	Proprietary

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME -----	CAS NUMBER
No proposition 65 chemicals are known to exist in this product.	

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

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SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2      FLAMMABILITY: 1      REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 02/01/97

REASON FOR REVISION: FORMULA CHANGE

MSDS 77050

VOC Material 80-90 g/l  
VOC less water less exempt 80-90 g/l

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS  
N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
PEL - PERMISSIBLE EXPOSURE LIMIT  
NTP - NATIONAL TOXICOLOGY PROGRAM  
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986  
STEL - SHORT TERM EXPOSURE LIMIT  
TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)  
VOC - VOLATILE ORGANIC COMPOUND  
NJRTK - NEW JERSEY RIGHT TO KNOW LAW  
N.D. - NOT DETERMINED

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This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

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< End OF MSDS >