### MATERIAL SAFETY DATA SHEET

Assorted Etching Ink

PRODUCT NAME: #7 STANDARD BLACK ETCHING INK HMIS CODES: H F R P

PRODUCT CODE: 02BK002

============== SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: DANIEL SMITH INC.

ADDRESS: 4130 1ST AVENUE SOUTH, SEATTLE, WASHINGTON 98134

EMERGENCY PHONE: (206) 223-9599 INFORMATION PHONE: (206) 223-9599

NAME OF PREPARER : RONALD W. HARMON DATE REVISED : 07-20-90

REASON REVISED : NEW

HAZARDOUS COMPONENTS/WEIGHT PERCENT

====== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL ACGIH TLV OTHER LD50 SPECIES & ROUTE LC50 SPECIES & ROUTE

\*\*\* NO REPORTABLE QUANTITIES OF INGREDIENTS ARE PRESENT \*\*\*

\*\*\* No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. \*\*\*

======= SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =========

BOILING POINT: N/A

SPECIFIC GRAVITY (H20=1): 1.4

VAPOR DENSITY: NO DATA

EVAPORATION RATE: NO DATA

COATING V.O.C. : NO DATA

SOLUBILITY IN WATER: NON-SOLUBLE

APPEARANCE AND ODOR: BLACK OILY PASTE

FREEZING POINT: NOT KNOWN.

pH: N/A

COEFFICIENT OF WATER/OIL DIST: N/A

ODOR THRESHOLD: N/A

======= SECTION IV - FIRE AND EXPLOSION HAZARD DATA ==========

FLASH POINT: N/A

METHOD USED:

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: NO DATA UPPER: NO DATA

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE EX -PLOSION WHEN EXPOSED TO EXTREME HEAT. FIREFIGHTERS SHOULD USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHES

UNUSUAL FIRE AND EXPLOSION HAZARDS

FLAMMABILITY - T.D.G.R. CLASS

SENSITIVITY TO IMPACT NONE KNOWN.

SENSITIVITY TO STATIC DISCHARGE NONE KNOWN.

\_\_\_\_\_\_

SECTION V - REACTIVITY DATA

STABILITY: STABLE CONDITIONS TO AVOID EXCESSIVE TEMPERATURE, DIRECT HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID) STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS NOW KNOWN.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE INHALATION: NONE POSSIBLE

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE EYE CONTACT: MAY RESULT IN IRRITATION, REDNESS, TEARING, BLURRED VISION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE SKIN CONTACT: MAY RESULT IN IRRITATION, REDNESS, DERNATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE INGESTION: MAY RESULT IN NAUSEA, VONITING.

HEALTH HAZARDS (ACUTE AND CHRONIC)
INHALATION-HONE POSSIBLE. BYE CONTACT-IRRITATION, REDNESS, THARING, AND BLURRED VISION. SKIN CONTACT-IRRITATION, REDNESS, AND DERMATITIS. INGESTION-NAUSEA AND VONITING. NO CHRONIC HEALTH EFFECTS.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

TERATOGENICITY NONE.

MUTAGENICITY NONE.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS NONE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE HOME KNOWN.

EMERGENCY AND FIRST AID PROCEDURES
INHALATION-REMOVE INDIVIDUAL TO FRESH AIR. BYE CONTACT-FLUSH WITH WATER FOR AT LEAST 15 HINUTES; GET MEDICAL ATTENTION IF
NECESSARY. SKIN CONTACT-WASH THOROUGHLY WITH SOAP AND WATER; GET MEDICAL ATTENTION IF NECESSARY. INGESTION-DO NOT INDUCE
VONITING; GET MEDICAL ATTENTION.

 SECTION	VII	_	PRECAUTIONS	FOR	SAFE	HANDLING	AND	USE	
 DECITOR ATT	A T T		LUDCHOTTOND	EUK		IIIIIDDIA	X Y TA TO	COH	

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED ELIMINATE ALL SOURCES OF IGNITION, PROVIDE GOOD VENTILATION. SOAK UP SPILL WITH ABSORBENT MATERIAL AND REMOVE TO OPEN

#### WASTE DISPOSAL METHOD

CONSULT LOCAL, STATE, AND FEDERAL HAZARDOUS WASTE REGULATIONS BEFORE DISPOSING INTO APPROVED HAZARDOUS WASTE LANDFILLS.

OBEY RELEVANT LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING STORE AWAY FROM FIRE AND FLAME, KEEP CONTAINERS CLOSED.

OTHER PRECAUTIONS NONE.

# RESPIRATORY PROTECTION

NONE REQUIRED WITH NORMAL USE.

#### VENTILATION

USE ONLY IN AREAS WITH ADEQUATE VENTILATION.

#### PROTECTIVE GLOVES

IMPERMEABLE CHEMICAL HANDLING GLOVES FOR SKIN PROTECTION (RUBBER OR VINYL).

#### EYE PROTECTION

FACE SHIELD OR GOGGLES, IF EYE CONTACT IS PROBABLE.

## OTHER PROTECTIVE CLOTHING OR EQUIPMENT

IMPERMEABLE APRON OR PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT.

#### WORK/HYGIENIC PRACTICES

NORMAL CLEAN-UP PROCEDURES.

#### DISCLAIMER

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED RE-GARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. DANIEL SHITH INC. ASSUMES NO RE-SPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO USERS OR THIRD PARTIES CAUSED BY THIS MATERIAL.