MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PHTHALO GREEN ETCHING INK
PRODUCT CODE: 02GN001

HMIS CODES: H F R P

1 1 0 C

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
DATE REVISED: 07-26-90
NAME OF PREPAREER: RONALD W. HARMON
REASON REVISED: NEW

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

OCCUPATIONAL EXPOSURE LIMITS

HAZARDOUS COMPONENTS/WEIGHT PERCENT

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 (H2O=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: Green 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 explosion when exposed to extreme heat. Firefighters should use self-contained breathing apparatus and protective clothes.

UNUSUAL FIRE AND EXPLOSION HAZARDS
None

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
None known.

HAZARDOUS POLYMERIZATION: Will not occur
SECTION VI - HEALTH HAZARD DATA

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, DERMATITIS.

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

HEALTH HAZARDS (ACUTE AND CHRONIC)
INHALATION—NONE POSSIBLE. EYE CONTACT—IRRITATION, REDNESS, TEARING, AND BLURRED VISION. SKIN CONTACT—IRRITATION, REDNESS, AND DERMATITIS. INGESTION—NAUSEA AND VOMITING. 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
NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES
INHALATION—REMOVE INDIVIDUAL TO FRESH AIR. EYE CONTACT—FLUSH WITH WATER FOR AT LEAST 15 MINUTES; GET MEDICAL ATTENTION IF NECESSARY. SKIN CONTACT—WASH THOROUGHLY WITH SOAP AND WATER; GET MEDICAL ATTENTION IF NECESSARY. INGESTION—DO NOT INDUCE VOMITING; GET MEDICAL ATTENTION.
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

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 air.

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.

SECTION VIII - CONTROL MEASURES

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.

SECTION IX - DISCLAIMER

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