

MATERIAL SAFETY DATA SHEET

APR 25 1994

PRODUCT NAME: D.S. ALIZARIN CRIMSON RELF INK  
PRODUCT CODE: 03R001

H M I S 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 : 10-29-91 NAME OF PREPARER : RONALD W. HARMON  
REASON REVISED : NEW

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

O C C U P A T I O N A L E X P O S U R E L I M I T S  
HAZARDOUS COMPONENTS/WEIGHT PERCENT OSHA PEL ACGIH TLV OTHER LD50 SPECIES & ROUTE LC50 SPECIES & ROUTE

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

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\*\*\* No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. \*\*\*  
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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS  
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BOILING POINT: N/A                      SPECIFIC GRAVITY (H2O=1):      1.2  
VAPOR DENSITY: NO DATA  
EVAPORATION RATE: NO DATA  
COATING V.O.C. : NO DATA  
SOLUBILITY IN WATER: NON-SOLUBLE  
APPEARANCE AND ODOR: RED OILY PASTE  
FREEZING POINT: NOT KNOWN.              pH: N/A  
COEFFICIENT OF WATER/OIL DIST: N/A      ODOR THRESHOLD: N/A

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA  
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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.

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SECTION V - REACTIVITY DATA  
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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

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SECTION VI - HEALTH HAZARD DATA  
=====**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

INHALATION: NONE POSSIBLE UNDER NORMAL USE.

**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 UNDER NORMAL USE. 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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