

**MATERIAL SAFETY DATA SHEET**

DO 837 PERM. ORANGE R/S

**PRODUCT NAME: DO 837 PERM. ORANGE R/S**  
PRODUCT CODE: DO 837

**HMIS CODES: H F R P**  
1 1 0 B

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

MANUFACTURER'S NAME: Triangle Ink Co., Inc.  
ADDRESS : 53-57 Van Dyke Street  
Wallington, NJ 07057

EMERGENCY PHONE : 800-429-9300 (CHEMTREC)      DATE PRINTED : 09/16/2004  
INTRNATIONAL : 703-527-3887  
INFORMATION PHONE : 201-935-2777

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

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT PERCENT
		MM HG	@ TEMP	
Mixture of 1,2-BENZENEDICARBOLIC ACID ESTERS	MIXTURE	0.30000	356.0000	66.6
1,2-Benzenedicarboxylic acid alkyl esters (50%) ACGIH TLV: 5 mg/m3	800963-5071	0.00000	0.00000	

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

WARNING: DETECTABLE AMOUNTS OF A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM MAY BE PRESENT IN THIS PRODUCT.

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

BOILING RANGE: 395 TO 440 DEG F      SPECIFIC GRAVITY (H2O=1): 1.07  
VAPOR DENSITY: HEAVIER THAN AIR      EVAPORATION RATE: SLOWER THAN ETHER  
MATERIAL V.O.C.: . lb/gl  
SOLUBILITY IN WATER: Non Soluble  
APPEARANCE AND ODOR: RED PASTE AND CHARACTERISTIC ODOR

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

FLASH POINT: 393 deg F      METHOD USED: PMCC  
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A      UPPER: N/A

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

**SPECIAL FIREFIGHTING PROCEDURES**

USE SELF CONTAINED BREATHING APPARATUS, AND SUITABLE PROTECTIVE CLOTHING.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

MATERIAL WILL BURN, BUT WILL NOT IGNITE READILY. COOLING REQUIRED TO PREVENT EXPLOSION IN THE HEAT OF FIRE.

===== **SECTION V - REACTIVITY DATA** =====

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**STABILITY: STABLE**

## **CONDITIONS TO AVOID**

HIGH TEMPERATURES.

## **INCOMPATIBILITY (MATERIALS TO AVOID)**

NONE KNOWN.

## **HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

MAY YIELD CARBON DIOXIDE BY THERMAL DECOMPOSITION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## ===== SECTION VI - HEALTH HAZARD DATA =====

### **INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

IF BREATHING DIFFICULTIES, DIZZINESS OR LIGHTHEADEDNESS OCCURS WHEN WORKING WITH HIGH VAPOR CONCENTRATION, VICTIM SHOULD SEEK FRESH AIR. IF BREATHING STOPS BEGIN ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION.

### **SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

MAY CAUSE ITCHING OF SKIN AND TEARING OF EYES.

### **SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.

### **INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

IF THIS PRODUCT IS SWALLOWED, INDUCE VOMITING, ONLY IF VICTIM IS ALERT. IMMEDIATELY SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONCIOUS PERSON.

### **HEALTH HAZARDS (ACUTE AND CHRONIC)**

Inhalation-Dizziness, breathing difficulty, headaches, and loss of coordination. Eye contact-Severe irritation, tearing, redness, and blurred vision. Skin contact-Can dry and defat skin causing cracks, irritation, and dermatitis. Ingestion-Can cause gastrointestinal irritation, vomiting, nausea, & diarrhea. No chronic health effects.

**CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED:**

Yes

### **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

ASTHMATIC AILMENTS, SKIN DISORDERS

### **EMERGENCY AND FIRST AID PROCEDURES**

INHALATION: MOVE TO FRESH AIR. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN CONTACT: WASH WITH SOAP AND LARGE AMOUNT OF WATER.

EYE CONTACT: FLUSH WITH LARGE AMOUNT OF WATER UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, SEEK MEDICAL HELP.

INGESTION: IF SWALLOWED, INDUCE VOMITING, BUT ONLY IF VICTIM IS ALERT. GET PROMPT MEDICAL ATTENTION. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO A DROWSY OR UNCONCIOUS PERSON.

## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

MATERIAL SHOULD BE GATHERED BY SCOOPING INTO CONTAINERS. PREVENT FROM ENTERING SEWERS OR OTHER DRAINAGE.

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## **WASTE DISPOSAL METHOD**

Collect absorbent/water/spilled liquid mixture into metal containers. Consult local, state & federal hazardous waste regulations before disposing into approved hazardous waste landfills. Obey relevant laws.

## **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

STORE IN COOL AREAS AWAY FROM HEAT, SPARKS OR OPEN FLAME, TO PREVENT HARDENING. TIGHTLY CLOSE ALL CONTAINERS AFTER USE, TO PREVENT CONTAMINATION. IDEAL STORAGE TEMPERATURE IS 50 - 81 F ( 10 - 27 C).

## **OTHER PRECAUTIONS**

NONE.

## ===== SECTION VIII - CONTROL MEASURES =====

### **RESPIRATORY PROTECTION**

THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATION. ABOVE THE TIME WEIGHTED TLV, USE NIOSH APPROVED CARTRIDGE RESPIRATOR OR GAS MASK.

### **VENTILATION**

General mechanical ventilation may be sufficient to keep product concentration within specified time weighted TLV range.

### **PROTECTIVE GLOVES**

THE USE OF IMPERMEABLE GLOVES IS ADVISED TO PREVENT SKIN IRRITATION.

### **EYE PROTECTION**

SAFETY GLASSES, CHEMICAL GOGGLES AND OR FACE SHIELDS ARE RECOMMENDED.

### **OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

SKIN PROTECTIVE CLOTHING MUST BE WORN.

### **WORK/HYGIENIC PRACTICES**

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

## ===== SECTION IX - DISCLAIMER =====

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