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# MATERIAL SAFETY DATA SHEET

Identity(As Used on Label and List) : RISOGRAPH RC INK (BLACK/BLUE/RED/GREEN/BROWN/YELLOW/  
RISO-PURPLE/BRIGHT-RED/MEDIUM-BLUE/FEDERAL-BLUE)

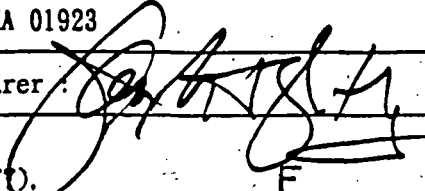
## SECTION I

Manufacturer's Name : RISO INC.

Emergency Telephone Number : 508-777-7377 Telephone Number for Information : 508-777-7377

Address : 300 Rosewood Drive, Suite 210, Danvers, MA 01923

Date Prepared : July 18, 1994

Signature of Preparer: 

Trade Name and Synonyms : RISOGRAPH RC INK(Item Code)  
BLACK(S-975), BLUE(S-976), RED(S-977),  
GREEN(S-978), BROWN(S-979), YELLOW(S-980),  
RISO-PURPLE(S-099), BRIGHT-RED(S-414),  
MEDIUM-BLUE(S-415), FEDERAL-BLUE(S-416)

Chemical Name Synonyms : Water/Oil-type Emulsion Ink for Duplicator.



## SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Identity;Common Name(s)), CAS No.	OSHA(PEL)	ACGIH(TWA)	Other Limits Recommended	%
Petroleum Solvent, CAS No. 64742-55-8, 64742-18-3	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Not applicable	ca. 15%
Glycerol, CAS No. 56-81-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	Not applicable	
Carbon black, CAS No. 1333-86-4 (for BLACK INK)	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	Not applicable	
Aliphatic hydrocarbon, CAS No. 64742-47-8	None	None	(Combustible)	
Non-hazardous components				
Water, CAS No. 7732-18-5	None	None	Not applicable	ca. 60%
Others	None	None	Not applicable	

## SECTION III - Physical / Chemical Characteristics

Boiling Point: 212 ° F/ 100° C	Specific Gravity(H <sub>2</sub> O = 1): 1.00-1.02
Vapor Pressure(mm Hg): Not determined	Melting Point: < 0° C
Vapor Density(AIR = 1): Not applicable	Evaporation Rate: (Butyl Acetate = 1) Not applicable
Solubility in Water: Negligible	pH Value: Not applicable
Appearance and Odor: Extremely viscous colored liquid with slight odor	

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**SECTION IV - Fire and Explosion Hazard Data**

Flash Point: Not established  
(Pensky-Wartens Closed Tester)      Flammable Limits: LEL NA      UEL NA  
Not applicable

Extinguishing Media: Carbon dioxide, dry chemical foam or water spray

Special Fire Fighting Procedures : Not in particular. RISOGRAPH RC INK is not combustible.

Unusual Fire and Explosion Hazards: No unusual fire and explosion hazards.

**SECTION V - Reactivity Data**

Stability      Unstable \_\_\_\_\_      Conditions to Avoid: Not applicable  
Stable        x  

Incompatibility(Materials to Avoid) : Strong oxidizing agents

Hazardous Decomposition or Byproducts : None

Hazardous      May Occur \_\_\_\_\_      Conditions to Avoid: Not applicable  
Polymerization. Will Not Occur   x  

**SECTION VI - Health Hazard Data**

Route(s) of Entry:      Inhalation? Yes      Skin? Yes      Ingestion? Yes

Health Hazards(Acute and Chronic):  
Acute oral lethal dose lowest on rats is greater than 2000mg/kg. (LDLo > 2000mg/kg)  
Skin irritation test on rabbits shows that RA is not irritant.  
Eye irritation test on rabbits shows that RA is minimally irritating.

Mutagenicity(Ames): Non-mutagenic

Carcinogenicity:      NTP? No      IARC Monographs? Yes      OSHA Regulated? No  
Petroleum solvent known as mineral oil is listed carcinogenic in IARC Monograph.

Signs and Symptoms of Exposure:  
High vapour concentrations are a little irritating to eyes and the respiratory tract.

Medical conditions Generally Aggravated by Exposure:      Not known

Emergency and First Aid Procedure :  
Eye Contact : Flush with plenty of water for at least 15 minutes.  
Inhalation : Remove affected person to fresh air immediately.

**SECTION VII - Precautions for Safe Handling and Storing**

Steps to Be Taken in Case Material Is Released or Spoiled:  
Spills should be wiped up with cloth or paper.

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**Waste Disposal Method:**

Incineration is preferable. Observe all Federal, state and local regulations concerning health and environmental pollution.

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**Precautions to Be Taken in Handling and Storing:** Not in particular. In order to keep ink efficiency, store at the temperature 41 ~86° F(5 ~30° C)

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**Other Precautions:** Not in particular

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**SECTION VII - Control Measures**

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**Respiratory Protection(Specify Type):** Preferable in case of handling a large amount

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Ventilation	Local Exhaust	: Not required	Special:	Not applicable
	Mechanical(General):	Preferable	Other:	Not applicable

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**Protective Gloves:** Not normally required      **Eye Protection:** Not normally required

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**Other Protective Clothing or Equipment:** Not in particular

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**Work/Hygenic Practices** : Not applicable

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