## MATERIAL SAFETY DATA SHEET

## SECTION I

IANUFACTURER'S NAME RISO KAGAKU CORPORATION EMERGENCY TELEPHONE NUMBER 508-777-7377

TELEPHONE NUMBER FOR INFORMATION 508-777-7377 RISO, Inc., Danvers, MA

**DDRESS** 

2-20-15 SHINBASHI, MINATOKU, TOKYO, 105, JAPAN

ATE PREPARED Dec. 21, 1991

SIGNATURE OF PREPARER

RADE NAME AND SYNONYMS RISOGRAPH INK (RG)

CHEMICAL NAME AND SYNONYMS Water/Oil-type Emulsion ink for Duplicator

SECTION II - Hazardous Ingredients/Identity Information

ISO KAGAKU CORPORATION considers the formulation of this RG Ink a Trade Secret. Release of the formulation will be made under a an-disclosure agreement.

us and carcinogenic materials, contained in the RG lnk, as defined by OSHA regulations are described below.

azardous Components

(Specific Identity; Common Name(s))

CAS No.

Hazard Classification, OSHA(PEL), ACGIH(TWA)

Mineral Oil (Ink Oil)

64742-55-8, 64742-56-9

Carcinogenic (IARC)

13%

EGlycerol (1,2,3-Propanetriol)

56-81-5

PEL 15 mg/m<sup>3</sup>, TWA 10 mg/m<sup>3</sup> (as total dust) PEL 3.5 mg/m<sup>3</sup>, TWA 3.5 mg/m<sup>3</sup>

r Carbon Black (in Oil of Ink)

1333-86-4

- \* The Glycerol is in a water-phase of emulsion and does not disperse in the air.
- ☆ The Carbon Black is in a paste form and does not disperse in the air.

## **SECTION III - Physical/Chemical Characteristics**

loiling Point: Not Applicable

Specific Gravity (H2O = 1):

Note: The lowest boiling point is water. (212° F/ 100° C)

1.00 - 1.02

'apor Pressure (kg/cm²): ≤ 0.01 (at 40°C) Melting point: Not Applicable

'apor Density (AIR = 1):

Evaporation Date:

Not Applicable

(Butyl Acetate = 1)

Not Applicable

iol

Water: Negligible

oppearance and Odor: Colored extremely viscous liquid with slight odor.

•		200	hin i i-i-	1 = 1	UEL
lash Found: Not established (JIS	K2265 Cleveland Tester)	Flamma None	ble Limits:	LEL Not Applicable	Not Applicable
xtinguishing Media:	${\sf CO}_{\cal A}$ , Dry chemical form, Water fog or	spray			
pecial Fire Fighting Fink will not act as a s	Procedures: ource of Ignition, but might disperse in a	a fire.			
inusual Fire and Expl	osion Hazards: None				
SECTION V	- Reactive Data				
tability Unstal	ole Conditions to Avoid: _ eX_	-			
ncompatibility (Materia	als to Avoid): Strong oxidizing agents				
azardous Decompos	ition or Byproducts: CO on incomplete	combustion			
lazardous rolymorization	May Occur Condi Will Not Occur X	tions to Avoid:			
SECTION VI	- Health Hazard Data				
oute(s) of Entry:	Inhalation?	yes Skin?	Yes	Ingestion? Yes	
Health Hazards (Acute Inhalation: Skin: Eyes: Absorption thr Ingestion:	Expected to cause no Expected to cause no ough skin: No information available	more than minor irritation more than minor irritation	. Prolonged	or frequent skin contac	ct may be harmful
Carcinogenicity: Mineral oil (Inl	NTP? No IARC (Oil) is listed in IRAC Monographs SUP	3	OSHA Regul	ated? No	
igns and Symptoms	of Exposure: Negligible				
fedical Conditions G	enerally Aggravated by Exposure: Re	efer to Attached NOC MSI	os		
Emergency and First	Aid Procedures:				
eye u x: skin:	Flush eyes with large amounts of water Wash skin thoroughly with soap and water	er until irritation subsides. water. Launder contamina	If irritation peated clothing.	ersists, get medical atte	ention.

If swallowed, give a large amount of water to drink, make person vomit, and call a doctor

Not applicable

nhalation:

ngestion:

teps to use taken in case material is released or spilled:  Spills should be wiped up with cluth or paper.								
Controlled	ethod: ink bottle is Polyvinyl Chloride (i burning (small quantities). cal industrial waste disposal com			or Local law.				
None. Sto	aken in handling and storing: re ink under the bottled condition nded storage temperature: 41-86			-				
ther Precautions:	None							
SECTION	VIII Control Moor	uros						
	VIII - Control Meas							
	tion (Specify Type):							
lespiratory Protec Not necess	tion (Specify Type): eary	irable	Special: Other:	None				
lespiratory Protec Not necess 'ent'	tion (Specify Type): sary  Local Exhaust: Des	irable irable		None				
lespiratory Protective Gloves:	tion (Specify Type): sary  Local Exhaust: Des Mechanical (General): Des	sirable sirable Eye protection:	Other:	None				