

Section	1 - PRODUCT AND CO	MPANY IDENTIFIC	CATION	
PRODUCT NAME :	RISOGRAPH RN INK / U	BLACK		
ITEM CODE:	S-3194			
MANUFACTURER				
NAME:	RISO KAGAKU CORPORA	TION		
ADDRESS:	5-34-7 SHIBA, MINATO-KU, TOKYO, 108-8385, JAPAN			
TELEPHONE NUMBER:	81 (3) 5441–6611			
DISTRIBUTOR				
NAME:	RISO, INC.			
ADDRESS:	300 ROSEWOOD DRIVE SUITE 210, DANVERS, MA 01923 U.S.A.			
TELEPHONE NUMBER:	(978) 777-7377			
Section 2 –	COMPOSITION/INFOR	MATION ON ING	REDIENTS	
SUBSTANCE / MIXTURE:	Mixture (Preparation)			
CHEMICAL NATURE:	Water-in-Oil-type emulsion			
COMPONENTS:				
	<u>CAS No.</u>		<u>wt%</u>	
Petroleum solvent	64742-55-8		< 10	
	64742-47-8	Tra	de secret	
Glycerol	56-81-5		< 10	
Carbon black (pigment)	1333-86-4	_	< 10	
Organic pigment(s)	Trade secret		de secret	
Alkyd resin	Trade secret		de secret	
Water	7732-18-5	Ira	de secret	
	Section 3 – HAZARDS	IDENTIFICATION		
POTENTIAL HEALTH EFFECTS:				
EYE:	May cause slight irritation.			
SKIN:	May cause slight irritation.	May cause slight irritation.		
INHALATION:	Vapour or mist in unusuall	y high concentrations	generated from heating this	
	ink, or as from exposure in	poorly ventilated areas	s, may cause irritation of the	
	nose and throat, headache	, and nausea.		
INGESTION:	May cause abdominal discomfort, nausea.			
Section 4 – FIRST-AID MEASURES				
EYE:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.			
SKIN:	After contact with skin, wash immediately with plenty of water using a mild			
	soap.			
INHALATION:	If you feel unwell, move from the contamination immediately to fresh air and seek medical advice.			
INGESTION:	If swallowed, do not induce	vomiting and seek me	edical advice.	



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Section 5 – FIRE-FIGHTING MEASURES				
FLASH POINT:	None (Closed Cup)			
AUTOIGNITION TEMPERATURE:	> 400 °C			
EXPLOSION PROPERTIES:	Not applicable			
EXTINGUISHING MEDIA:	Water, CO <sub>2</sub> , foam, dry chemical powde	r, dry sand		
SPECIFIC HAZARDS WITH REGAR	D TO FIRE-FIGHTING MEASURES:			
	This ink does not act as a source of ignition, but might burn if involved in a fire.			
HAZARDOUS COMBUSTION PRODUCTS: CO, CO <sub>2</sub> , smoke				
Sect	ion 6 – ACCIDENTAL RELEASE I	MEASURES		
PERSONAL PRECAUTIONS:	Ventilate the area until material is completely picked up.			
ENVIRONMENTAL PRECAUTIONS	Do not empty into the drains.			
METHOD OF CLEANING UP:	Shovel up, then wipe up with cloth or paper.			
Section 7 – HANDLING AND STORAGE				
HANDLING:				
TECHNICAL MEASURES:	Use only in the well-ventilated areas.			
SAFE HANDLING ADVICE:	Avoid contact with skin. Use only with cartridge (bottle).			
STORAGE:				
STORAGE CONDITIONS:	Store at 5 - 35 $^{\circ}$ C and protect from sunlight.			
	Keep the ink out of reach of children.			
PACKAGING MATERIAL:	Only original cartridge (bottle).			
Section 8 - E	XPOSURE CONTROLS / PERSC	ONAL PROTECTION		
ENGINEERING MEASURES:	Good general ventilation should be suff	ficient for most conditions.		
EXPOSURE GUIDELINES:				
	ACGIH TLV	OSHA PEL		
Petroleum solvent	5 mg/m <sup>3</sup> *1	5 mg/m <sup>3</sup> *1		
Petroleum solvent	Not listed	Not listed		
Glycerol	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>		
Carbon black (pigment)	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>		
Organic pigment(s)	Not listed	Not listed		
Alkyd resin	Not listed	Not listed		
Water	Not listed	Not listed		
	*1 : as mineral oil mists			
PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION : Not normally required				
HAND PROTECTION:	Recommend the use of gloves in case of contact with skin.			
EYE PROTECTION:	Not normally required			
SKIN AND BODY PROTECTION : Not normally required				



Sect	ion 9 – PHYSICAL AND CHEMICAL PROPERTIES				
PHYSICAL STATE:	Paste				
ODOR:	Slight petroleum odor				
PH:	Not applicable				
BOILING POINT:	> 100 °C				
MELTING POINT:	< 0 °C				
OXIDISING PROPERTIES:	Not applicable				
DENSITY:	1.00 - 1.12				
WATER SOLUBILITY:	Negligible				
WATER SOLUBILITY.	Section 10 – STABILITY AND REACTIVITY				
STABILITY:	This product is considered a stable material under normal storage and				
STABILITY.	handling conditions.				
CONDITION TO AVOID:	Avoid exposure to high temperatures.				
MATERIALS TO AVOID:	Strong oxidising agents				
HAZARDOUS DECOMPOSITION PRODUCTS: None Section 11 – TOXICOLOGICAL INFORMATION					
ACUTE ORAL TOXICITY:	LD50 >= 2500mg/kg (rat)				
ACUTE EYE IRRITATION:	May cause slight irritation.				
ACUTE SKIN IRRITATION:	May cause slight irritation.				
MUTAGENICITY:	Negative in the Ames test				
CARCINOGENICITY:	Carbon black is listed as Class 2B (Possible human carcinogen) by IARC. (However, IARC Monograph 65 also indicates "exposures to carbon black in the use of printing ink, rubber or paint are negligible.") None of the other ingredients in this product are listed by IARC,NTP,MAK, OSHA or ACGIH as a carcinogen. None of the other ingredients have been classified as carcinogens according to EU,IARC,MAK,NTP or OSHA.				
*These information are based on toxicity data for similar materials and ingredients.					
	Section 12 – ECOLOGICAL INFORMATION				
	No data available				
	Section 13 – DISPOSAL CONSIDERATIONS				
METHOD OF DISPOSAL:	Burn in an adequate incinerator or bury in landfill in accordance with all applicable regulations. Any disposal practice must be in compliance with local, state and federal laws and regulations. Material of ink-cartridge (bottle) are polypropylene (PP) and high-density polyethylene (HDPE).				
Section 14 – TRANSPORT INFORMATION					
RID/ADR:	Not applicable				
ADNR:	Not applicable				
IMDG CODE:	Not applicable				
ICAO/IATA-DGR: UN NUMBER:	Not applicable Not applicable				

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Section 15 – REGULATORY INFORMATION				
OSHA Hazard Communication Standard, 29CFR 1910.1200 : This product is not considered hazardous under this standard. TSCA (Toxic Substance Control Act) :				
All chemical substances in these products are listed in TSCA chemical substance inventory. ACGIH (American Conference of Governmental Industrial Hygienists) :				
This product contains no chemical substances classed carcinogenicity. WHMIS (Workplace Hazardous Materials Information System)				
This product is not considered a controlled product under this System.				
Section 16 - OTHER INFORMATION				
NFPA RATING (U.S.A.):				
Health = 0 Flammability = 1 Reactivity = 0				

The information herein is given in good faith, but no warranty, express or implies, is made. Please consult RISO INC. for further information.