

	Section 1 - PRODUCT AND COMPANY IDENTIFICATION								
PRODU	JCT NAME :	RISO INF	K Ztype BLACK / U						
ITEM C	ODE:	S-4254							
MANUF	FACTURER								
NA	ME:	RISO	KAGAKU CORPORATION						
AD	DRESS:	5-34-7	7 SHIBA, MINATO-KU, TOKYO, 108-8385, JAPAN						
TEI	LEPHONE NUMBER:	81 (3)	5441-6611						
DISTRI	BUTOR								
NA	ME:	RISO,	INC.						
AD	DRESS:	8 New	v England Executive Park, Suite 390, Burlington, MA 01803-5007,						
		U.S.A							
TEI	LEPHONE NUMBER:	(978)	777-7377						
	Section 2 - COMPOSITION/INFORMATION ON INGREDIENTS								
SUBST	ANCE / MIXTURE:	Mixture (I	Preparation)						
CHEMI	CAL NATURE:	Water-in-	Oil-type emulsion						
COMPO	ONENTS:			1					
			CAS No.	wt%					
	Soybean oil		8001-22-7	>= 6					
	Petroleum solvent		64742-53-6	< 10					
	Chucaral		64742-55-8	. 10					
	Glycerol Carbon black (pigme	ont)	<u> </u>	< 10 < 10					
	Alkyd resin	ent)	Trade secret	Trade secret					
	Water		7732-18-5	Trade secret					
				·					
		Section	3 - HAZARDS IDENTIFIC	ATION					
POTEN	ITIAL HEALTH EFFECTS:								
EYI	E:	May c	cause slight irritation.						
SK	IN:	May c	cause slight irritation.						
INF	ALATION:	Vapou	ur or mist in unusually high concentrations generated from heating						
		this in	nk, or as from exposure in poorly ventilated areas, may cause						
		irritatio	ion of the nose and throat, headache, and nausea.						
ING	GESTION:	May c	ause abdominal discomfort, nausea.						
		Sectio	n 4 - FIRST-AID MEASU	RES					
EYE:	EYE: In case of contact with eyes, rinse immediately with plenty of water and se								
medical									
			After contact with skin, wash immediately with plenty of water using a mild						
	soap.		feel unwell, move from the contamination immediately to fresh air and						
INHALATION:		-	seek medical advice.						
INGES			red, do not induce vomiting and	I seek medical advice.					



Section 5 - FIRE-FIGHTING MEASURES								
FLASH POINT: N	lone (C	losed cup)						
AUTOIGNITION TEMPERATURE: >	400 °C							
EXPLOSION PROPERTIES:	lot applic	able						
EXTINGUISHING MEDIA: V	Vater, CC	ater, CO ₂ , foam, dry chemical powder, dry sand						
SPECIFIC HAZARDS WITH REGARD 1	O FIRE-FI	GHTING MEASURES:						
Т	This ink does not act as a source of ignition, but might burn if involved in a							
fi	fire.							
HAZARDOUS COMBUSTION PRODUC	HAZARDOUS COMBUSTION PRODUCTS:							
C	CO, CO ₂ ,	smoke						
Section 6 - ACCIDENTAL RELEASE MEASURES								
PERSONAL PRECAUTIONS: V	'entilate t	he area until material	is completely picke	ed up.				
ENVIRONMENTAL PRECAUTIONS: D	o not em	pty into the drains.						
METHOD OF CLEANING UP: S	shovel up	, then wipe up with clo	oth or paper.					
S	ection	7 - HANDLING AN	ND 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 °C and protect from sunlight.							
	Keep tł	he ink out of reach of	children.					
PACKAGING MATERIAL:								
Section 8 - EX		E CONTROLS / F	•	OTECTION				
	Good gen	eral ventilation should	be sufficient for m	ost conditions.				
EXPOSURE GUIDELINES:	Jeed gen							
		CAS No.	ACGIH TLV	OSHA PEL				
Petroleum solvent		64742-53-6 64742-55-8	5 mg/m ³ *1	5 mg/m ³ *1				
Glycerol		56-81-5	10 mg/m ³	15 mg/m ³				
Carbon black (pigment)		1333-86-4	3.5 mg/m ³	3.5 mg/m ³				
	*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								



Section 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					
	Section 10 - STABILITY AND REACTIVITY					
STABILITY:	This product is considered a stable material under normal storage and					
	handling conditions.					
CONDITION TO AVOID:	Avoid exposure to high temperatures.					
MATERIALS TO AVOID:	Strong oxidising agents					
HAZARDOUS DECOMPOSITION	PRODUCTS:					
	None					
Se	ection 11 - TOXICOLOGICAL INFORMATION					
ACUTE ORAL TOXICITY:	LD50 >2000mg/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					
ECOTOXICITY:						
FISH TOXICITY:	Oryzias latipes LC50-96h > 100mg/l					
* This information is based on	toxicity data for similar materials and ingredients.					
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.					
	Ink Cartridge(bottle) material is plastic(polypropylene/polyethylene).					
	Label material is plastic (metal included).					



Section 14 - TRANSPORT INFORMATION					
RID/ADR:	Not applicable				
ADNR:	Not applicable				
IMDG CODE:	Not applicable				
ICAO/IATA-DGR:	Not applicable				
UN NUMBER:	Not applicable				
Section 15 - REGULATORY INFORMATION					
OSHA Hazard Communication Standard, 29CFR 1910.1200 :					
This product is	s 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 istance	ation haroin is given in good faith, but no warranty, everyon or implice, is made				

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