



MATERIAL SAFETY DATA SHEET

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DATE PREPARED: 06/25/2007

MSDS No.: RNI001U-02

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : RISOGRAPH RN INK / U BLACK

ITEM CODE: S-3194

MANUFACTURER

NAME: RISO KAGAKU CORPORATION

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/INFORMATION ON INGREDIENTS

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	Trade secret
Glycerol	56-81-5	< 10
Carbon black (pigment)	1333-86-4	< 10
Organic pigment(s)	Trade secret	Trade secret
Alkyd resin	Trade secret	Trade secret
Water	7732-18-5	Trade secret

Section 3 – HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

EYE: May cause slight irritation.

SKIN: May cause slight irritation.

INHALATION: Vapour or mist in unusually high concentrations generated from heating this ink, or as from exposure in poorly ventilated areas, 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 medical 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, CO₂, foam, dry chemical powder, dry sand

SPECIFIC HAZARDS WITH REGARD 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, CO₂, smoke

Section 6 – ACCIDENTAL RELEASE 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 °C and protect from sunlight.

Keep the ink out of reach of children.

PACKAGING MATERIAL: Only original cartridge (bottle).

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES: Good general ventilation should be sufficient for most conditions.

EXPOSURE GUIDELINES:

	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Petroleum solvent	5 mg/m ³ *1	5 mg/m ³ *1
	Not listed	Not listed
Glycerol	10 mg/m ³	15 mg/m ³
Carbon black (pigment)	3.5 mg/m ³	3.5 mg/m ³
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



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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

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).
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Section 14 – TRANSPORT INFORMATION

RID/ADR:	Not applicable
ADNR:	Not applicable
IMDG CODE:	Not applicable
ICAO/IATA-DGR:	Not applicable
UN NUMBER:	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.