



# MATERIAL SAFETY DATA SHEET

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DATE PREPARED:03/12/2007  
MSDS No.: RNSI001U-03

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : RISOGRAPH SOYINK RN BLACK / U  
ITEM CODE: S-4206  
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:

	CAS No.	wt%
Soybean oil	8001-22-7	> 6
Petroleum solvent	64742-53-6 64742-55-8	< 10
Glycerol	56-81-5	< 10
Carbon black (pigment)	1333-86-4	< 10
Alkyd resin	Trade secret	Trade secret
Water	7732-18-5	Trade secret

## Section 3 - HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS:

EYE: May cause slight irritating.  
SKIN: May cause slight irritating.  
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.

## 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 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, CO<sub>2</sub>, 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:

	ACGIH TLV	OSHA PEL
Soybean oil	Not listed	Not listed
Petroleum solvent	5 mg/m <sup>3</sup> *1	5 mg/m <sup>3</sup> *1
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>
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

**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: 1.01 g/cm<sup>3</sup> (23°C)  
 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 irritating.  
 ACUTE SKIN IRRITATION: May cause slight irritating.  
 MUTAGENICITY: No data available  
 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.  
 Ink Cartridge(bottle) material is plastic(polypropylene/polyethylene).



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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

## **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.

NTP (National Toxicology Program).

This product contains no chemical substances classed carcinogenicity.

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.