



MATERIAL SAFETY DATA SHEET

PAGE: 1/6
DATE PREPARED: 06/25/2007
MSDS No.: CRI000U-03

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : RISOGRAPH CR INK <See separate section>
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: <See separate section>

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.

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



MATERIAL SAFETY DATA SHEET

PAGE: 2/6
DATE PREPARED: 06/25/2007
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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.
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: <See separate section>
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



MATERIAL SAFETY DATA SHEET

PAGE: 3/6
DATE PREPARED:06/25/2007
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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.
Ink-pack consists of paper-carton, multiple plastic film and polypropylene cap.

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.
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.



MATERIAL SAFETY DATA SHEET

PAGE: 4/6
DATE PREPARED:06/25/2007
MSDS No.: CRI000U-03

Section 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME (ITEM CODE): RISOGRAPH CR INK U BLACK (S-2488)

Section 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS:

	CAS No.	wt%
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 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDLINES:

	CAS No.	ACGIH TLV	OSHA PEL
Petroleum solvent	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



MATERIAL SAFETY DATA SHEET

PAGE: 5/6
DATE PREPARED:06/25/2007
MSDS No.: CRI000U-03

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAMES (ITEM CODE): RISOGRAPH CR INK BROWN (S-2492)

Section 2 – COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS:

	CAS No.	wt%
Petroleum solvent	64742-46-7	< 5
	64742-47-8	Trade secret
Soybean oil	8001-22-7	< 6
Glycerol	56-81-5	< 10
Carbon black (pigment)	1333-86-4	< 1
Organic pigment(s)	Trade secret	Trade secret
Alkyd resin	Trade secret	Trade secret
Water	7732-18-5	Trade secret

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

	CAS No.	ACGIH TLV	OSHA PEL
Petroleum solvent	64742-46-7	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



MATERIAL SAFETY DATA SHEET

PAGE: 6/6
DATE PREPARED: 06/25/2007
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Section 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAMES (ITEM CODE):
RISOGRAPH CR INK RED (S-2489)
RISOGRAPH CR INK BLUE (S-2490)
RISOGRAPH CR INK GREEN (S-2491)
RISOGRAPH CR INK YELLOW (S-2493)
RISOGRAPH CR INK BRIGHT RED (S-2494)

Section 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS:

	CAS No.	wt%
Petroleum solvent	64742-46-7	< 5
	64742-47-8	Trade secret
Soybean oil	8001-22-7	< 6
Glycerol	56-81-5	< 10
Organic pigment(s)	Trade secret	Trade secret
Alkyd resin	Trade secret	Trade secret
Water	7732-18-5	Trade secret

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

	CAS No.	ACGIH TLV	OSHA PEL
Petroleum solvent	64742-46-7	5 mg/m ³ *1	5 mg/m ³ *1
Glycerol	56-81-5	10 mg/m ³	15 mg/m ³

*1 : as mineral oil mists