



# MATERIAL SAFETY DATA SHEET

PAGE: 1/4  
DATE PREPARED: 07/01/2003  
MSDS No.: GRHI001U-00

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : RISOGRAPH GR INK HD BLACK  
ITEM CODE: S-2314  
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. ( SIGNATURE: )  
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	---
Glycerol	56-81-5	< 10
Carbon black (pigment)	1333-86-4	< 10
Alkyd resin	Registered	---
Water	7732-18-5	---

## 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: Can not be established

AUTOIGNITION TEMPERATURE:  $\geq 400$  °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 picked up is completely.

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:

	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Petroleum solvent	5 mg/m <sup>3</sup> *1	5 mg/m <sup>3</sup> *1
	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>
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:	$\geq 100$ °C
MELTING POINT:	$\leq 0$ °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 $\geq 5000$ mg/kg (rat)
ACUTE EYE IRRITATION:	May cause slight irritating.
ACUTE SKIN IRRITATION:	May cause slight irritating. P.I.I. $\leq 2.0$
MUTAGENICITY:	Negative in the Ames test
SKIN SENSITISATION:	Frequent or prolonged contact may cause skin sensitisation
CARCINOGENICITY:	Carbon black is listed group 2B (possibly carcinogenic to humans) in IARC Monograph, 65. (However, IARC Monograph, 65 also indicates "exposures to carbon black in the use of printing ink, rubber or paint are negligible.") Petroleum solvent listed group 3 in IARC Monograph,33,45.

**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:	No classification assigned
ADNR:	No classification assigned
IMDG CODE:	No classification assigned
ICAO/IATA-DGR:	No classification assigned
UN NUMBER:	No classification assigned



**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.

IARC (International Agency for Research on Cancer) :

Printing inks, carbon black and petroleum solvent (known as mineral oil) are listed in IARC Monograph (refer to Section 11).

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.