



SAFETY DATA SHEET

Section 1 : Identification

Product identifier

Product name: RISOGRAPH GR INK (HD) BLACK
Item code: S-2314

Recommended use of the chemical and restrictions on use

Relevant identified uses: INK for Digital Duplicator

Company identification

Manufacturer: RISO KAGAKU CORPORATION
5-34-7 Shiba, Minato-ku, Tokyo, 108-8385, JAPAN
TEL: 81 (3) 5441-6611
Supplier: RISO, INC.
10 State Street, Suite 201, Woburn, MA 01801-2105 USA
TEL: (978) 777-7377

Section 2 : Hazards identification

Classification of the chemical in accordance with 29 CFR 1910.1200(d):

Not classified.

Label elements

Hazard pictograms: Not required.
Signal word: Not required.
Hazard statements: Not required.
Precautionary statements: Not required.

Hazards not otherwise classified (HNOC) : Not classified.

Section 3 : Composition/information on ingredients

Mixtures:

Chemical name	CAS No.	wt%
Petroleum solvent	64742-55-8	3-10
	64742-53-6	
Carbon black	1333-86-4	3-10
Vegetable oil	68956-68-3	3-10
Rice bran oil	68553-81-1	1-7
Glycerol	56-81-5	1-7
Alkyd resin	Trade secret	Trade secret
Water	7732-18-5	Trade secret

Section 4 : First-aid measures

Description of first aid measures

Inhalation: If you feel unwell, move from the contamination immediately to fresh air and seek medical advice.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin contact: After contact with skin, wash immediately with plenty of water using a mild soap.

Ingestion: If swallowed, do not induce vomiting and seek medical advice.

Most important symptoms/effects, acute and delayed:
No further relevant information available.

Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

Section 5 : Fire-fighting measures

Extinguishing media: Water, potassium carbonate mist, CO₂, foam, dry chemical powder, dry sand

Special hazards arising from the substance or mixture:
Fire could cause thick and black smoke.
Toxic products, CO and CO₂ could be formed by thermal decomposition.

Advice for fire-fighters: This ink does not act as a source of ignition, but might burn if exposed to a fire.

Section 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Ventilate the area until material is completely picked up.

Environmental precautions: Do not flush into the drains.

Methods and material for containment and cleaning up:
Shovel up, then wipe up with cloth or paper.

Section 7 : Handling and storage

Precautions for safe handling: Use only in the well-ventilated areas.
Avoid contact with skin.
Use only with the original cartridge.

Conditions for safe storage, including any incompatibilities:
Store at 5 - 35°C and protect from sunlight.
Keep out of the reach of children.
Use only with the original cartridge.

Section 8 : Exposure controls/personal protection

Control parameters

Occupational exposure guidelines:

Chemical name	CAS No.	OSHA PEL	ACGIH TLV
Petroleum solvent *as mineral oil (CAS No.8012-95-1)	64742-55-8	5 mg/m3 *Mists	5 mg/m3 *Mists
	64742-53-6		
Carbon black	1333-86-4	3.5 mg/m3	3 mg/m3
Glycerol	56-81-5	15 mg/m3 *Total dust of mists	10 mg/m3 *Total dust of mists
		5 mg/m3 *Respirable fraction of mists	

Appropriate engineering controls: Good general ventilation should be sufficient for most conditions.

Individual protection measures, such as 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:	Black paste
Odor:	Slight characteristic odor
pH:	Not applicable.
Melting point/freezing point:	< 0 °C
Boiling point:	> 100 °C
Flash point:	None (Closed-cup)
Evaporation rate:	No information available.
Flammability (solid, gas):	Not applicable.
Upper/lower flammability:	No information available.
Vapor pressure:	No information available.
Vapor density:	No information available.
Density:	1.00-1.20 g/cm ³ (23°C)
Solubility:	Insoluble in water.
Partition coefficient:	No information available.
Auto-ignition temperature:	> 400 °C
Decomposition temperature:	No information available.
Viscosity:	No information available.

Section 10 : Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal storage and handling conditions.
Possibility of hazardous reactions:	No information available.
Conditions to avoid:	Avoid direct sunlight and high temperatures.
Incompatible materials:	Halogens, strong acid, alkalis, oxidizing agents
Hazardous decomposition products:	Thermal decomposition products: CO, CO ₂ . No decomposition if used for the intended uses.

Section 11 : Toxicological information

Information on toxicological effects

Acute toxicity:	Oral LD50 > 2000mg/kg (rat) *
Skin corrosion/irritation:	May cause slight irritation.*
Serious eye damage/eye irritation:	May cause slight irritation.*
Respiratory or skin sensitization:	No information available.
Germ cell mutagenicity:	Negative in the Ames test.*
Carcinogenicity:	Carbon black is listed as Class 2B (Possible human carcinogen) by IARC. However, IARC Monograph 93 also indicates "exposure to carbon black does not occur during the use of products in which carbon black is bound to other materials, such as rubber, printing ink or paint." 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.
Reproductive toxicity:	No information available.

Specific target organ toxicity
single exposure: No information available.
repeated exposure: No information available.
Aspiration hazard: Low risk of aspiration due to high viscosity.

**These information are based on toxicity data for similar materials and ingredients.*

Section 12 : Ecological information

Ecotoxicity: Not classified.*
Persistence and degradability: No information available.
Bioaccumulative potential: No information available.
Mobility in soil: No information available.
Other adverse effects: No information available.

**This information is based on toxicity data for similar materials and ingredients.*

Section 13 : Disposal considerations

Waste treatment methods:
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).

Section 14 : Transport information

UN number: Not regulated.
UN proper shipping name: Not regulated.
Transport hazard class(es): Not regulated. (DOT, IMDG, IATA)
Packing group: Not regulated.
Environmental hazards: Not regulated.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not regulated.

Section 15 : Regulatory information

US Federal regulations
TSCA (Toxic Substance Control Act): All chemical substances in these products are listed on the TSCA chemical substance inventory, have been registered, or are exempt.
Clean Air Act Section 112 Hazardous Air Pollutants(HAPs):
Not listed.
SARA Section 313 (40 CFR 372.65) : Not listed.
CERCLA (40 CFR 302.4): Not listed.

Section 16 : Other information

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