

Section 1 : Identification

Product identifier

PRODUCT NAME (ITEM CODE):

- RISO INK F II type RED E/UA (S-8114 E/UA)
- RISO INK F II type BRIGHT RED E/UA (S-8115E/UA)
- RISO INK F II type RISO-MARINE RED E/UA (S-8116E/UA)
- RISO INK F II type BURGUNDY E/UA (S-8117E/UA)
- RISO INK F II type BROWN E/UA (S-8118E/UA)
- RISO INK F II type YELLOW E/UA (S-8119E/UA)
- RISO INK F II type GREEN E/UA (S-8120E/UA)
- RISO INK F II type TEAL E/UA (S-8121E/UA)
- RISO INK F II type BLUE E/UA (S-8122E/UA)
- RISO INK F II type MEDIUM BLUE E/UA (S-8123E/UA)
- RISO INK F II type RISO-FEDERAL BLUE E/UA (S-8124E/UA)
- RISO INK F II type PURPLE E/UA (S-8125E/UA)
- RISO INK F II type GRAY E/UA (S-8126E/UA)
- RISO INK F II type LIGHT GRAY E/UA (S-8127E/UA)
- RISO INK F II type FLUORESCENT PINK E/UA (S-8128E/UA)
- RISO INK F II type FLUORESCENT ORANGE E/UA (S-8129E/UA)
- RISO INK F II type CRIMSON E/UA (S-8187E/UA)
- RISO INK F II type FLAT GOLD E/UA (S-8186E/UA)
- RISO INK F II type HUNTER GREEN E/UA (S-8185E/UA)
- RISO INK F II type ORANGE E/UA (S-8184E/UA)

Recommended use of the chemical and restrictions on use;

RELEVANT IDENTIFIED USES: INK for Digital Duplicator

Company identification

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Section 2 : Hazards identification

GHS Classification: Not classified

GHS Label elements

HAZARD PICTOGRAMS: Not required

SIGNAL WORD: Not required.

HAZARD STATEMENTS: Not required

PRECAUTIONARY STATEMENTS: Not required

Section 3 : Composition/information on ingredients

Mixture:

Chemical name	CAS No.	wt%
Rice bran oil	68553-81-1	> 5
Petroleum solvent	64742-46-7	< 5
Glycerol	56-81-5	< 10
Carbon black (pigment)*1	1333-86-4	0.1-10
Titanium dioxide (pigment)*2	13463-67-7	< 20
Organic pigment(s)	Trade secret	Trade secret
Alkyd resin	Trade secret	Trade secret
Water	7732-18-5	Trade secret

*1 : Contained in
TEAL / FLAT GOLD / BROWN / RISO-MARINE RED / LIGHT GRAY / GRAY :<1.0wt%
HUNTER GREEN :>1.0wt%

*2 : Contained in
LIGHT GRAY / GRAY

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, CO₂, foam, dry chemical powder, dry sand

Special hazards arising from the substance or mixture:

May produce toxic fumes of CO, CO₂, NO_x, SO_x

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 empty 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 cartridge.

Conditions for safe storage, including any incompatibilities:

- Store at 5 - 35 °C and protect from sunlight.
- Keep the ink out of reach of children.
- Only original cartridge.

Section 8 : Exposure controls/personal protection

Control parameters:

OCCUPATIONAL EXPOSURE GUIDELINES:

	CAS No.	OSHA PEL	ACGIH TLV
Petroleum solvent	64742-46-7	5 mg/m ³ *	5 mg/m ³ *
Glycerol	56-81-5	15 mg/m ³	10 mg/m ³
Carbon black	1333-86-4	3.5 mg/m ³	3.5 mg/m ³
Titanium dioxide	13463-67-7	10 mg/m ³	15 mg/m ³

* : as mineral oil 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: Paste
- Odor: Slight petroleum odor
- pH: Not applicable
- Melting point/freezing point: < 0 °C
- Boiling point: > 100 °C
- Flash point: None (Closed cup)
- Evaporation rate: No data available
- Flammability (solid, gas): Not applicable
- Upper/lower flammability: No data available
- Vapor pressure: No data available
- Vapor density: No data available
- Density: 0.99 - 1.20
- Solubility: WATER SOLUBILITY: Negligible
- Partition coefficient: No data available
- Auto-ignition temperature: > 400 °C
- Decomposition temperature: No data available
- Viscosity: No data available

Section 10 : Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under normal storage and handling conditions.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Avoid exposure to high temperatures.
Incompatible materials:	Strong oxidising agents
Hazardous decomposition products:	None

Section 11 : Toxicological information

Information on toxicological effects

ACUTE ORAL TOXICITY:	LD50 >2000mg/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 and Titanium dioxide are 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” and “no significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints.” 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

Ecotoxicity:	No information available.
Persistence and degradability:	No information available.
Bioaccumulative potential:	No information available.
Mobility in soil:	No information available.
Other adverse effects:	No information available.

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). Label material is plastic (metal included).
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Section 14 : TRANSPORT INFORMATION

UN number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated (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

Japanese Existing and New Chemical Substances (ENCS)

All chemical substances in these products are listed on the ENCS list, have been registered, or are exempt.

Toxic Substances Control Act Chemical Substance Inventory (TSCA Inventory)

All chemical substances in these products are listed on the TSCA chemical substance inventory, have been registered, or are exempt.

Korean Existing Chemicals List (ECL)

All chemical substances in these products are listed on the ECL list, have been registered, or are exempt.

Australian Inventory of Chemical Substances List (AICS)

All chemical substances in these products are listed on the AICS list, have been registered, or are exempt.

Section 16 : OTHER INFORMATION

Issue date: 2019/04/24
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The information herein is given in good faith, but no warranty, express or implies, is made.

Please consult RISO KAGAKU CORPORATION for further information.