

Section 1 : Identification**Product identifier**

PRODUCT NAME (ITEM CODE): RISO INK Etype BURGUNDY (S-7195U)
RISO INK Etype BLUE (S-7196U)
RISO INK Etype GREEN (S-7197U)
RISO INK Etype MEDIUM BLUE (S-7198U)
RISO INK Etype BRIGHT RED (S-7199U)
RISO INK Etype RISO-FEDERAL BLUE (S-7200U)
RISO INK Etype PURPLE (S-7201U)
RISO INK Etype TEAL (S-7202U)
RISO INK Etype FLAT GOLD (S-7203U)
RISO INK Etype HUNTER GREEN (S-7204U)
RISO INK Etype RED (S-7205U)
RISO INK Etype BROWN (S-7206U)
RISO INK Etype YELLOW (S-7207U)
RISO INK Etype RISO-MARINE RED (S-7208U)
RISO INK Etype ORANGE (S-7209U)
RISO INK Etype CRIMSON (S-7210U)
RISO INK Etype FLUORESCENT PINK (S-7211U)
RISO INK Etype FLUORESCENT ORANGE (S-7212U)
RISO INK Etype LIGHT GREY (S-7213U)
RISO INK Etype GREY (S-7214U)

Recommended use of the chemical and restrictions on use;

RELEVANT IDENTIFIED USES: INK for Digital Duplicator

Company identification

MANUFACTURER: RISO KAGAKU CORPORATION
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SUPPLIER: RISO, INC.
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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

Mixture:

Chemical name	CAS No.	wt%
Soybean oil	8001-22-7	>= 6
Petroleum solvent	64742-46-7	< 5
	64742-47-8	Trade secret
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 GREY / GREY (<1.0wt%)
HUNTER GREEN (>1.0wt%)

*2 : Contained in

LIGHT GREY / GREY

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: 1.00 - 1.12
- 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:	
TOXICITY TO FISH:	Oryzias latipes LC ₅₀ -96h > 100mg/L
AQUATIC INVERTEBRATES:	Daphnia magna EC ₅₀ -48h > 100mg/L
AQUATIC PLANTS:	Algae ErC ₅₀ -72h > 100mg/L
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). Label material is plastic (metal included).
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SAFETY DATA SHEET

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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 regulation:
TSCA (Toxic Substance Control Act) :
All chemical substances in these products are listed or exempted in TSCA chemical substance inventory.
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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The information herein is given in good faith, but no warranty, express or implies, is made.
Please consult RISO, INC. for further information.