SAFETY DATA SHEET

Section 1 : Identification

Product identifier

PRODUCT NAME (ITEM CODE): RISO SOYINK COLOR RED (S-4387)
RISO SOYINK COLOR BLUE (S-4388)
RISO SOYINK COLOR GREEN (S-4389)
RISO SOYINK COLOR BROWN (S-4390)
RISO SOYINK COLOR YELLOW (S-4391)
RISO SOYINK COLOR BRIGHT RED (S-4392)
RISO SOYINK COLOR RISOMARINERED (S-4393)
RISO SOYINK COLOR MEDIUM BLUE (S-4394)
RISO SOYINK COLOR RISOFEDERALBLUE (S-4395)
RISO SOYINK COLOR PURPLE (S-4396)
RISO SOYINK COLOR BURGUNDY (S-4397)
RISO SOYINK COLOR TEAL (S-4398)
RISO SOYINK COLOR GREY (S-4399)
RISO SOYINK COLOR LIGHT GREY (S-4400)
RISO SOYINK COLOR FLUORESCENT PINK (S-4401)
RISO SOYINK COLOR FLUORESCENT ORANGE (S-4402)
RISO SOYINK COLOR FLAT GOLD (S-4403)
RISO SOYINK COLOR HUNTER GREEN (S-4404)
RISO SOYINK COLOR ORANGE (S-4405)
RISO SOYINK COLOR CRIMSON (S-4406)

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
BROWN / RISO-MARINE RED / TEAL / FLAT GOLD / GREY / LIGHT GREY (<1.0wt%)
HUNTER GREEN (>1.0wt%)

*2 : Contained in
GREY / LIGHT 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, CO_2, foam, dry chemical powder, dry sand

Special hazards arising from the substance or mixture:

May produce toxic fumes of CO, CO_2, NOx, SOx

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 ^{o}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 ^{o}C

Boiling point: > 100 ^{o}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 ^{o}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).

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.