



SAFETY DATA SHEET

DATE PREPARED: 01/03/2019

SDS No.: RF21000E-00

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

PRODUCT NAME (ITEM CODE):

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

1.2. Relevant identified uses of the substance or mixture and uses advised against

RELEVANT IDENTIFIED USES: INK for Digital Duplicator

1.3. Details of the supplier of the safety data sheet

MANUFACTURER NAME: RISO KAGAKU CORPORATION
5-34-7 Shiba, Minato-ku, Tokyo, 108-8385, JAPAN
TEL: 81 (3) 5441-6611

SUPPLIER: RISO KAGAKU CORPORATION LONDON OFFICE
610 Centennial Park, Centennial Avenue, Elstree, Herts, WD6 3TJ U.K
TEL: 44 (20) 8236-5800

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008:

Not classified.

2.2. Label elements

LABELLING ACCORDING TO REGULATION (EC) NO 1272/2008:

HAZARD PICTOGRAMS: Not required
SIGNAL WORD: Not required.
HAZARD STATEMENTS: Not required
PRECAUTIONARY STATEMENTS: Not required

2.3. Other hazards

RESULT OF PBT AND VPVB ASSESSMENT:

Not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

INGREDIENT NAME	CAS No.	EINECS No.	Classification EC 1272/2008	wt%
Petroleum solvent	64742-47-8	265-149-8	Asp.Tox.1; H304	< 5
Glycerol	56-81-5	200-289-5	Not classified.	< 10
Rice bran oil	68553-81-1	271-397-8	Not classified.	> 5
Petroleum solvent	64742-46-7	278-012-2	Not classified.	< 5
Carbon black (pigment)*1	1333-86-4	Trade secret	Not classified.	0.1-10
Titanium dioxide (pigment)*2	13463-67-7	Trade secret	Not classified.	< 20
Organic pigment(s)	Trade secret	Trade secret	Not classified.	Trade secret
Alkyd resin	Trade secret	Not applicable	Not classified.	Trade secret
Water	7732-18-5	231-791-2	Not classified.	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

4.1. Description of 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.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media: Water, CO₂, foam, dry chemical powder, dry sand

5.2. Special hazards arising from the substance or mixture:

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

5.3. Advice for fire-fighters: Combustion will evolve toxic and irritating vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Ventilate the area until material is completely picked up.

6.2. Environmental precautions:

Do not empty into the drains.

6.3. Methods and material for containment and cleaning up:

Shovel up, then wipe up with cloth or paper.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Use only in the well-ventilated areas.
Avoid contact with skin. Use only with cartridge.

7.2. 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

8.1. Control parameters:

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

*1 : as mineral oil mists

8.2. Exposure controls:

APPROPRIATE ENGINEERING CONTROLS:

Good general ventilation should be sufficient for most conditions.

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

9.1. Information on basic physical and chemical properties:

PHYSICAL STATE: Paste
ODOUR: Slight petroleum odour
PH: Not applicable
BOILING POINT: > 100 °C
MELTING POINT: < 0 °C
FLASH POINT: None (Closed Cup)
AUTOIGNITION TEMPERATURE: > 400 °C
EXPLOSION PROPERTIES: Not applicable
OXIDISING PROPERTIES: Not applicable
DENSITY: 0.99 - 1.20
WATER SOLUBILITY: Negligible

SECTION 10: Stability and reactivity

10.1. Reactivity: No data available
10.2. Chemical stability: Stable under normal storage and handling conditions.
10.3. Possibility of hazardous reactions:
No data available
10.4. Conditions to avoid: Avoid exposure to high temperatures.
10.5. Incompatible materials: Strong oxidising agents
10.6. Hazardous decomposition products:



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None

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ACUTE TOXICITY (ORAL): LD50 > 2000mg/kg (rat)

SKIN CORROSION/IRRITATION: May cause slight irritation.

SERIOUS EYE DAMAGE/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."

Although petroleum solvent is listed in AnnexVI of Regulation (EC) No 1272/2008, it is justified by Note L not to classify it as carcinogens because it contains less than 3% DMSO extract.

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

12.1. Toxicity: No information available.

12.2. Persistence and degradability:

No information available.

12.3. Bioaccumulative potential:

No information available.

12.4. Mobility in soil: No information available.

12.5. Results of PBT and vPvB assessment:

This product contains no substance considered to PBT and vPvB criteria.

12.6. Other adverse effects: No information available.

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

SECTION 13: Disposal considerations

13.1. 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 all EU and Member State (both federal and state) laws.

Ink Cartridge (bottle) material is plastic (polypropylene/polyethylene).

Label material is plastic (metal included).

SECTION 14: Transport information

14.1. UN number: Not regulated
 14.2. UN proper shipping name: Not regulated
 14.3. Transport hazard class(es): Not regulated
 14.4. Packing group: Not regulated
 14.5. Environmental hazards: Not regulated
 14.6. Special precautions for user: Not regulated
 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not regulated

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
 EU REGULATION: Contains no REACH substances with Annex XVII restrictions
 Contains no REACH candidate substance
 Contains no REACH Annex XIV substances
 NATIONAL REGULATION: No additional information available
 15.2. Chemical Safety Assessment:
 A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of classifications: Asp.Tox.1 - Aspiration hazard, Category 1
 Full text of H-Statements: H304 - May be fatal if swallowed and enters airways.
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 SDS No.(Version No): RF2I000E-00

The information herein is given in good faith, but no warranty, express or imply, is made.
 Please consult RISO KAGAKU CORPORATION LONDON OFFICE for further information.

