

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

1.1. Product identifier

PRODUCT NAME: RISO INK GOLD F (E)
ITEM CODE: S-7098E

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
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SUPPLIER: RISO KAGAKU CORPORATION LONDON OFFICE
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Section 2: Hazards identification

2.1. Classification of the substance or mixture

CLASSIFICATION ACCORDING TO EU CLP REGULATION (EC) NO 1272/2008 AND GB CLP REGULATION:
Not classified.

2.2. Label elements

LABELLING ACCORDING TO EU CLP REGULATION (EC) NO 1272/2008 AND GB CLP REGULATION:

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:
This product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Section 3: Composition/information on ingredients

3.2. Mixtures

INGREDIENT NAME	CAS No.	EINECS No.	Classification EC 1272/2008	wt%
Petroleum solvent	74869-22-0	278-012-2	Not classified.	5-15
Glycerol	56-81-5	200-289-5	Not classified.	0-5
Copper	7440-50-8	231-159-6	Acute Tox.4;H302 Eye Irrit.2;H319 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	10-20
Zinc powder – zinc dust (stabilized)	7440-66-6	231-175-3	Aquatic Acute 1;H400 Aquatic Chronic 1;H410	0-5



SAFETY DATA SHEET

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Amines, hydrogenated tallow alkyl	61788-45-2	262-976-6	Skin Irrit.2;H315 Eye Dam.1;H318 STOT RE 2;H373 Asp.Tox.1;H304 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	< 1
Alkyd resin	Trade secret	Not applicable	Not classified.	Trade secret
Water	7732-18-5	231-791-2	Not classified.	Trade secret

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. Specific hazards arising from the substance or mixture:
May produce toxic fumes of CO, CO₂, NO_x, SO_x
- 5.3. 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

- 6.1. Personnel 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 materials 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	74869-22-0	5 mg/m ³ *1
Copper (as Cu dusts and mists)	7440-50-8	1mg/m ³

*1 : as mineral oil(CAS No.8012-95-1) 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
ODOR:	Slight characteristic odor
PH:	Not applicable
BOILING POINT:	> 100 °C
MELTING POINT:	< 0 °C
FLASH POINT:	None (Closed-Cup)
AUTOIGNITION TEMPERATURE:	> 200 °C
EXPLOSION PROPERTIES:	Not applicable
OXIDISING PROPERTIES:	Not applicable
DENSITY:	1.00- 1.20 g/cm ³ (23°C)
WATER SOLUBILITY:	Insoluble

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 direct sunlight and high temperatures.
- 10.5. Incompatible materials: Halogens, strong acid, alkalis, oxidizing agents
- 10.6. Hazardous decomposition products:
No data available

Section 11: Toxicological information

11.1. 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:	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.

ASPIRATION HAZARDS:

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.

Low risk of aspiration due to high viscosity.

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

Section 12: Ecological information

12.1. Ecotoxicity:

TOXICITY TO FISH:	Oryzias latipes	LC ₅₀ -96h > 10mg/L
AQUATIC INVERTEBRATES:	Daphnia magna	EC ₅₀ -48h > 10mg/L
AQUATIC PLANTS:	Algae	ErC ₅₀ -72h > 10mg/L

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

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:

No chemical safety assessment has been carried out.

Section 16: Other information

Full text of classifications:

Acute Tox.4 - Acute toxicity, Category 4

Asp. Tox.1 - Aspiration hazard, Category 1

Full text of H-Statements:

Skin Irrit.2 - Skin Irritation, Category 2
Eye Dam.1 - Serious eye damage, Category 1
Eye Irrit.2 - Eye Irritation, Category 2
STOT RE 2 - Specific target organ toxicity – repeated exposure, Category 2
Aquatic Acute 1 - Acute aquatic toxicity, Category 1
Aquatic Chronic 1 - Chronic aquatic toxicity, Category 1
H302 - Harmful if swallowed.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H373 - May cause damage to organs through prolonged or repeated exposure.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects

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.