

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

PRODUCT NAME : RISOGRAPH CZ INK < See separate section >  
PRODUCT CODE : < See separate section >

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

RELEVANT IDENTIFIED USES: INK for Digital Duplicator (CZ Series)

**1.3. Details of the supplier of the safety data sheet**

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

SUPPLIER: RISOKAGAKU 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**

CHEMICAL CHARACTERIZATION: Water-in-Oil-type emulsion  
INGREDIENTS: < See separate section >

**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, CO<sub>2</sub>, foam, dry chemical powder, dry sand
- 5.2. Special hazards arising from the substance or mixture:  
May produce toxic fumes of CO, CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>x</sub>
- 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. 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: < See separate section >
- 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:	1.00 - 1.12
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:  
None

## 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: Carbon black is 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.")  
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:  
FISH TOXICITY: Oryzias latipes LC50-96h > 100mg/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.

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



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

### 1.1. Product identifier

PRODUCT NAME (ITEM CODE): RISO INK CZ type BLACK (S-4877E)

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### INGREDIENTS:

	CAS No.	EINECS No.	Classification EC 1272/2008	wt%
Petroleum solvent	64742-52-5	278-012-2	Not classified.	<15
	64742-53-6			
	64742-55-8			
	64742-47-8	265-149-8	Asp.Tox.1; H304	< 5
Glycerol	56-81-5	200-289-5	Not classified.	< 10
Carbon black (pigment)	1333-86-4	215-609-9	Not classified.	< 10
Disodium tetraborate, anhydrous	1303-96-4	215-540-4	Repr.1B; H360	< 0.3
Alkyd resin	Trade secret	Not applicable	Not classified.	Trade secret
Water	7732-18-5	231-791-2	Not classified.	Trade secret

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters:

#### EXPOSURE GUIDELINES:

	CAS No.	ACGIH TWA
Petroleum solvent	64742-52-5	5 mg/m <sup>3</sup> *
	64742-53-6	
	64742-55-8	
Glycerol	56-81-5	10 mg/m <sup>3</sup>
Carbon black (pigment)	1333-86-4	3.5 mg/m <sup>3</sup>
Disodium tetraborate, anhydrous	1303-96-4	2mg/m <sup>3</sup>

\*1 : as mineral oil mists

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

1.1. Product identifier

PRODUCT NAME (ITEM CODE): RISO INK CZ type RED (S-4878E)  
 RISO INK CZ type BLUE (S-4879E)  
 RISO INK CZ type GREEN (S-4880E)  
 RISO INK CZ type YELLOW (S-4881E)

**SECTION 3: Composition/information on ingredients**

3.2. Mixtures

INGREDIENTS:

	CAS No.	EINECS No.	Classification EC 1272/2008	wt%
Soybean oil	8001-22-7	232-274-4	Not classified.	< 6
Petroleum solvent	64742-46-7	278-012-2	Not classified.	< 5
	64742-47-8	265-149-8	Asp.Tox.1; H304	< 10
Glycerol	56-81-5	200-289-5	Not classified.	< 10
Organic pigment(s)	Trade secret	Trade secret	Not classified.	Trade secret
Disodium tetraborate, anhydrous	1303-96-4	215-540-4	Repr.1B; H360	< 0.3
Alkyd resin	Trade secret	Not applicable	Not classified.	Trade secret
Water	7732-18-5	231-791-2	Not classified.	Trade secret

**SECTION 8: Exposure controls/personal protection**

8.1. Control parameters:

EXPOSURE GUIDELINES:

	CAS No.	ACGIH TLV
Petroleum solvent	64742-46-7	5 mg/m <sup>3</sup> *1
Glycerol	56-81-5	10 mg/m <sup>3</sup>
Disodium tetraborate, anhydrous	1303-96-4	2mg/m <sup>3</sup>

\*1 : as mineral oil mists