

**Section 1 : Identification**

**Product identifier**

PRODUCT NAME : RISO INK Ztype BLACK / U  
 ITEM CODE: S-4254

**Recommended use of the chemical and restrictions on use;**

RELEVANT IDENTIFIED USES: INK for Digital Duplicator

**Company identification**

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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	64742-53-6 64742-55-8	< 10
Glycerol	56-81-5	< 10
Carbon black (pigment)	1333-86-4	< 10
Alkyd resin	Trade secret	Trade secret
Water	7732-18-5	Trade secret

**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<sub>2</sub>, foam, dry chemical powder, dry sand  
 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>  
 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	64742-53-6 64742-55-8	5 mg/m <sup>3</sup> *	5 mg/m <sup>3</sup> *
Glycerol	56-81-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Carbon black	1333-86-4	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>

\* : 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 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."  
 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<sub>50</sub>-96h > 100mg/L  
 AQUATIC INVERTEBRATES: Daphnia magna EC<sub>50</sub>-48h > 100mg/L  
 AQUATIC PLANTS: Algae ErC<sub>50</sub>-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.*



## SAFETY DATA SHEET

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### 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).

### Section 14 : TRANSPORT INFORMATION

UN number: Not regulated  
UN proper shipping name: Not applicable  
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.