SAFETY DATA SHEET

Section 1 : Identification

Product identifier

PRODUCT NAME : ComColor X1 INK Cartridge BLACK

ITEM CODE: S-6701G

Recommended use of the chemical and restrictions on use;

RELEVANT IDENTIFIED USES: INK for InkJet Printer (ComColor Series)

Company identification

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

SUPPLIER: RISO,INC.
800 District Avenue, Suite 390 Burlington, MA, 01803 USA
TEL: (978) 777-7377

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%
Petroleum solvent	64742-46-7	< 50
Carbon black	1333-86-4	< 10
Fatty acid ester	Trade secret	Trade secret
High alcohol	Trade secret	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_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 *1	5 mg/m^3 *1
Carbon black	1333-86-4	3.5 mg/m^3	3.5 mg/m^3

*1 : 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: Black liquid

Odor: Slight petroleum odor

pH: Not applicable

Melting point/freezing point: < 0 ^{o}C

Boiling point: > 200 ^{o}C

Flash point: > 120 ^{o}C (Cleveland Open-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:	0.86
Solubility:	WATER SOLUBILITY: Negligible
Partition coefficient:	No data available
Auto-ignition temperature:	> 200 ^{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 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_{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).

Label material is plastic (metal included).

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.