

Section 5 : Fire-fighting measures

Extinguishing media: Potassium carbonate mist, CO₂, foam, dry chemical powder, dry sand

Special hazards arising from the substance or mixture:
Fire could cause thick and black smoke.
Toxic products, CO and CO₂, could be formed by thermal decomposition.

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	64742-46-7	5 mg/m ³ *1	5 mg/m ³ *1
Carbon black	1333-86-4	3.5 mg/m ³	3 mg/m ³

*1 : as mineral oil (CAS No.8012-95-1) 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 characteristic odor

pH: Not applicable

Melting point/freezing point: < 0 °C

Boiling point: > 200 °C

Flash point: > 120 °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: 0.84-0.92 g/cm³ (23 °C)

Solubility: WATER SOLUBILITY: Insoluble

Partition coefficient:	No data available
Auto-ignition temperature:	> 200 °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 direct sunlight, high temperatures, open flame.
Incompatible materials:	Halogens, strong acid, alkalis, oxidizing agents
Hazardous decomposition products:	Thermal decomposition Products: CO, CO ₂ . No decomposition if used for the intended uses.

Section 11 : Toxicological information

Information on toxicological effects

ACUTE ORAL TOXICITY	LD50 > 2000mg/kg (rat) *
ACUTE SKIN IRRITATION:	May cause slight irritation.*
ACUTE EYE 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:	Not classified*
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.
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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

Japanese Existing and New Chemical Substances (ENCS)

All chemical substances in these products are listed on the ENCS list, have been registered, or are exempt.

Toxic Substances Control Act Chemical Substance Inventory (TSCA Inventory)

All chemical substances in these products are listed on the TSCA chemical substance inventory, have been registered, or are exempt.

Australian Inventory of Chemical Substances List (AICS)

All chemical substances in these products are listed on the AICS list, have been registered, or are exempt.

Section 16 : Other information

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