

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

*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: Blue 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:	0.84-0.90 g/cm ³ (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:	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.

**These information are 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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SAFETY DATA SHEET

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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

US Major 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
 Component Analysis – State: The following components appear on one or more of the following state hazardous substances lists.

Chemical name	CAS No.	Concentration	CA	MA	MN	NJ	NY	PA	RI
Petroleum solvent	64742-46-7	15-40%	Yes	No	No	No	No	No	No

Section 16 : Other information, including data of preparation or last revision

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