

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: Red 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: 0.83-0.91 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, CO₂.
 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* LC₅₀-96h > 100mg/L*
 AQUATIC INVERTEBRATES: *Daphnia magna* EC₅₀-48h > 100mg/L*
 AQUATIC PLANTS: Algae ErC₅₀-72h > 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

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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