EPSON

Product Information Sheet

1. Article and Corporate Identification

Product:Epson Ink Cartridge (Carbon black) T059940

Manufacturer/Distributor: EPSON Europe B.V.
Entrada 701
1096 EJ, Amsterdam
The Netherlands
Internet : www.epson-europe.com

Medical Emergency Number: Giftnotruf Berlin +49 030-19240

2. Composition Information

This is an aqueous ink formulation

Ink Composition	CAS No.	% By Weight
Carbon Black	1333-86-4	< 5 %
Proprietary dyes and pigments	–	< 1 %
Proprietary organic materials	–	10 – 25 %
Glycerols	–	10 – 20 %
Triethanol amine	102-71-6	0 – 5 %
Water	7732-18-5	balance

3. Hazard Identification

Not classified as hazardous preparation under EU Directive 1999/45/EC.

3.1 Emergency Overview: Ink component is a light black liquid that may cause eye irritation. Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water. Keep out of reach of children.

3.2 Potential Health Effects:

Eyes: Ink contact with eye may be mildly irritating. See Section 11 for Toxicology.

Skin: Ink contact with skin may cause irritation, swelling, or redness. It is not expected to cause an allergic skin reaction. See Section 11 for Toxicology.

Inhalation: Intentional exposure to ink vapors may cause respiratory irritation. See Section 11 for Toxicology.

Ingestion: May cause upset stomach. See Section 11 for Toxicology.

4. First Aid Measures

4.1 Eyes: Immediately flush with room temperature, low pressure, clean water for at least 15 minutes. Seek medical attention if eye irritation continues.

4.2 Skin: Wash surface areas with soap and water. Wash soiled clothing before rewearing. Consult a physician if irritation continues.

4.3 Inhalation: Remove subject to ventilated fresh air. Consult physician if necessary.

4.4 Ingestion: Seek medical advise; and attention if stomach continues to be upset.

5. Fire Fighting Measures

5.1 Flammability: Not flammable

5.2 Extinguishing Media: Dry chemical or carbon dioxide

5.3 Fire Fighting Instructions: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

6. Accidental Release Measures

6.1 Personal protections: No eye or skin protection required during clean-up. Use proper ventilation.

6.2 Methods for cleaning up : If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal. Do not dispose of waste to the sewer. Wash hands with soap and water.

7. Precautions for Safe Handling and Use

7.1 Handling : Keep out of reach of children and do not drink ink. Do not dismantle cartridge. Make sure cartridge is dry before insertion into printer housing.

7.2 Storage : Do not store the cartridge in high or freezing temperatures. Keep cartridge out of direct sunlight. Do not store cartridges with oxidizing agents or explosives.

8. Exposure Controls and Personal Protection

8.1 Engineering Controls: None required

8.2 Exposure Controls: None required

8.3 Personal Protection: None required when cartridges are used as intended

9. Physical and Chemical Properties of Ink Formulation

Appearance:	Black Liquid
Odor:	None
pH:	About 8~10
Boiling point:	Approximately 100 °C / 212 °F
Melting point:	Less than 0 °C / 32 °F
Flash point:	Not detected until 100 °C / 212 °F (closed cup, ASTM D3278)
Autoflammability:	None
Explosive properties:	None
Oxidizing properties:	None
Vapor density:	Greater than 1 (air = 1)
Relative density:	1.05~1.10 at 20 °C / 68 °F
Solubility in water:	Complete
Solubility in fat:	No data available
Partition coefficient:	No data available
Viscosity:	Less than 5 mPa·s

10. Stability and Reactivity

Stability:	Stable
Condition to avoid:	Do not stage with oxidizers or explosives.
Reactivity:	None
Hazardous decomposition products:	None

11. Toxicology and Health Hazards

* according to similar composition ink

Routes Of Overexposure: Eye, skin, inhalation, and oral

Acute Health Hazards:

- Overexposure of eye surface to ink may be mildly irritating
- Overexposure of skin to ink contact may cause irritation and in some people swelling and redness
- Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation
- Intentional or accidental oral ingestion may cause an upset stomach

Chronic Health Hazards: None known

Mugtagenicity: Negative (by Ames Test)*

Carcinogenicity: With excessive exposure, carbon black has been listed as a possible human carcinogen. However, as engineered within this ink cartridge, emissions to air of carbon black during normal printing use have not been found. IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens.

Toxicity Data:	Oral LD_{50}	Dermal LD_{50}	Inhalant LC_{50}
	> 2000mg/kg*	> 2000mg/kg*	Not Applicable

Eye irritating: Non to Mild irritating(OECD 405)*

Skin irritating: Non to Mild irritating(OECD 404)*

Skin sensitizing: Non-sensitizing(OECD 406 or 429)*

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12. Ecological Information

No data available on the adverse effects of this material on the environment

13. Disposal Considerations

Disposal should be in accordance with national and local requirements.

14. Transportation Information

UN Class/UN Number: Not applicable
DOT, IMO, or IATA : Not hazardous classification

15. Regulatory Considerations

Cartridges are outside the scope of EU Directive 1999/45/EC

16. Other Information

This "Product Information Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It is subject to revision from time to time. EPSON does not warrant the completeness or accuracy of the information contained herein.

In consideration of our environment and world neighbors, all genuine EPSON ink cartridges are engineered and based on an "Ecologically Friendly" water based technology. EPSON ink cartridges contain no CFCs or harsh liquid solvents.