Material Safety Data Sheets

Proper management of environmental resources protects the well-being of our employees, customers, shareholders, and the communities we are a part of worldwide.

Tektronix establishes and maintains sound environmental management practices to accomplish this goal and to assure compliance with the laws, regulations, and orders of the responsible governmental authorities wherever Tektronix and its subsidiaries operate.

Tektronix, Incorporated is complying with government regulations by providing Material Safety Data Sheets for this product.

Color Printing and Imaging Division
Tektronix, Incorporated

MSDS for Toner

Section 1 – Product Identification

Trade Names:	**Tektronix Part Number:**
Black Toner Cartridge	016-1678-00
Cyan Toner Cartridge	016-1679-00
Magenta Toner Cartridge	016-1680-00
Yellow Toner Cartridge	016-1681-00

Product Use: Tektronix Phaser® 780 color printers

Section 2 – Information On Ingredients

Ingredients:
Toners are a proprietary blend of pigments and resins, encased in a cartridge.

Section 3 – Hazards Identification

ROUTES OF EXPOSURE: Toner powders are encased in a cartridge and are not accessible, unless cartridge is forcibly broken.

POTENTIAL HEALTH EFFECTS: Health effects from this product are expected to be negligible, when product is used as intended.
Immediate Effects:
Inhalation: Minimum irritation to respiratory tract.
Skin: Non-irritant and non-sensitizer for skin.
Eye: Non-irritating to eyes.
Ingestion: Not an expected route of exposure.
Chronic Effects: None known or expected.

SIGNS AND SYMPTOMS OF EXPOSURE: Minimal irritation to respiratory tract, as for any non-toxic dust.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None when used as intended.

Section 4 – First Aid Measures

Inhalation: Unlikely route of exposure. In the event of exposure, remove person to fresh air. Seek medical attention if symptoms occur.
Eyes: If particles get into eye, flush thoroughly with water. Seek medical attention if symptoms occur.
Skin: Wash thoroughly with soap and water. Seek medical attention if symptoms of irritation occur.
Ingestion: Dilute stomach contents by drinking several glasses of milk or water. Seek medical attention immediately.

Section 5 – Fire Fighting Measures

Flammable Properties:
Flash Point: Not applicable.
Fire & Explosion Hazards: These toners will burn. No unusual hazards are expected. As for most organic powders, explosive mixtures can form when powder is dispersed in air.
Extinguishing media: Use CO_2, dry chemical, foam, or water. Avoid inhalation of smoke. As for any fire, wear protective clothing and self-contained breathing apparatus.

Section 6 – Accidental Release Measures

Spill Or Leak: Toners are encased in a cartridge. However, in case of breakage, toner powders may be cleaned up with a broom or vacuum and placed in a convenient waste disposal container. Clean up residue if necessary with soap and water.

Section 7 – Handling And Storage

Handling: No special requirements.
Storage: No special requirements.

Section 8 – Exposure Control – Personal Protection

No special protection indicated when used as intended.

TLV/PEL: Black toner contains carbon black, which has an OSHA Permissible Exposure Limit (PEL) of 3.5 mg/m^3 (milligrams per cubic meter of air), as an eight-hour time-weighted average. The ACGIH Threshold Limit Value (TLV) is also 3.5 mg/m^3.

Section 9 – Physical And Chemical Properties

Appearance: Black, blue, red, or yellow powders in cartridge.
Odor: Slight.
Solubility: Not water-soluble.
Specific Gravity: 1 (water = 1).

Section 10 – Stability And Reactivity

Stability: Stable.
Incompatibility With Other Materials: None known.
Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

Acute: Non-irritating to eyes. Non-sensitizer for skin. Non-irritant for skin. Not toxic, according to laboratory tests for acute oral, dermal, and inhalation toxicity.
Chronic: Mutagenic effects: none detected in Ames assay.
Note: Toxicity data is based upon test results of similar xerographic toners.

Section 12 – Ecological Information

No known impact.

Section 13 – Disposal Considerations

These products are not a hazardous waste as specified in 40CFR 261. Dispose in accordance with all federal, state, and local regulations. In the spent condition, copper-zinc ferrite (CAS 66402-68-4) may be present in the remnant material at sufficient levels to classify the remnant material as a hazardous waste under the California Code of Regulations, Title 22, Division 4.5.

Section 14 – Transport Information

DOT: Not regulated.

Section 15 – Regulatory Information

TSCA: All components of these toners are listed in the Toxic Substances Control Act inventory as verified by our suppliers.

RCRA: TCLP below hazardous waste levels set by EPA.

California Proposition 65: Not listed.

CERCLA: Not listed.

SARA Extremely Hazardous Substances: Not listed.

SARA 313: Not listed.
The ingredients of these toners are not listed as carcinogens by OSHA or NTP. Black toner does contain carbon black, which has been classified by the International Agency for Research on Cancer (IARC) as a class 2B carcinogen. IARC 2B materials are considered to be possibly carcinogenic to humans.

Section 16 – Other Information

Original preparation date: June 3, 1998. JMP
Tektronix, Incorporated
P.O. Box 500
Chemical Documentation
Mail Stop 46-825
Beaverton, Oregon 97077
Printer information: 1-800-835-6100
MSDS information: (503) 627-7255

MSDS for Developer

Section 1 – Product Identification

Trade Names:	Tektronix Part Number:
Black Developer Assembly	118-9782-00
Cyan Developer Assembly	118-9783-00
Magenta Developer Assembly	118-9784-00
Yellow Developer Assembly	118-9785-00

Product Use: Tektronix Phaser® 780 color printers

Section 2 – Information On Ingredients

- Ingredients
  Developers are a proprietary blend of copper-zinc ferrite (CAS 66402-68-4), resins and pigments, encased in a cartridge.

Section 3 – Hazards Identification

ROUTES OF EXPOSURE: Developer granules are encased in a cartridge and are not accessible, unless cartridge is forcibly broken.

POTENTIAL HEALTH EFFECTS: Health effects from this product are expected to be negligible, when product is used as intended.
Immediate Effects:
Inhalation: Minimum irritation to respiratory tract.
Skin: Non-irritant and non-sensitizer for skin.
Eye: Non-irritating to eyes.
I**ngestion:** Not an expected route of exposure.
Chronic Effects: None known or expected.

SIGNS AND SYMPTOMS OF EXPOSURE: Minimal irritation to respiratory tract, as for any non-toxic dust.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None when used as intended.

Section 4 – First Aid Measures

Inhalation: Unlikely route of exposure. In the event of exposure, remove person to fresh air. Seek medical attention if symptoms occur.
Eyes: If particles get into eye, flush thoroughly with water. Seek medical attention if symptoms occur.
Skin: Wash thoroughly with soap and water. Seek medical attention if symptoms of irritation occur.
Ingestion: Dilute stomach contents by drinking several glasses of milk or water. Seek medical attention immediately.

Section 5 – Fire-Fighting Measures

Flammable Properties:
Flash Point: Not applicable.
Fire & Explosion Hazards: This product is combustible. No unusual hazards are expected.
Extinguishing media: Use CO_2, dry chemical, foam, or water. Avoid inhalation of smoke.
As for any fire, wear protective clothing and self-contained breathing apparatus.

Section 6 – Accidental Release Measures

Spill Or Leak: Developer granules may be cleaned up with a broom or vacuum and placed in a convenient waste disposal container. Clean up residue if necessary with soap and water.

Section 7 – Handling And Storage

Handling: No special requirements.
Storage: No special requirements.

Section 8 – Exposure Control – Personal Protection

No special protection indicated when used as intended.

TLV/PEL: Black developer contains carbon black, which has an OSHA Permissible Exposure Limit (PEL) of 3.5 mg/m^3 (milligrams per cubic meter of air), as an eight-hour time-weighted average. The ACGIH Threshold Limit Value (TLV) is also 3.5 mg/m^3.

Section 9 – Physical And Chemical Properties

Appearance: Black, blue, red, or yellow granules in cartridge.
Odor: Slight.
Solubility: Not available.
Specific Gravity: Not available.

Section 10 – Stability And Reactivity

Stability: Stable.
Incompatibility With Other Materials: None known.
Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

Acute: Non-irritating to eyes. Non-sensitizer for skin. Non-irritant for skin. Not toxic, according to laboratory tests for acute oral, dermal, and inhalation toxicity.
Chronic: Mutagenic effects: none detected in Ames assay.
Note: Toxicity data is based upon test results of similar xerographic materials.

Section 12 – Ecological Information

No known impact.

Section 13 – Disposal Considerations

These products are not a hazardous waste as specified in 40CFR 261. Dispose in accordance with all federal, state, and local regulations. In the spent condition, copper-zinc ferrite (CAS 66402-68-4) may be present in the remnant material at sufficient levels to classify the remnant material as a hazardous waste under the California Code of Regulations, Title 22, Division 4.5.

Section 14 – Transport Information

DOT: Not regulated.

Section 15 – Regulatory Information

TSCA: All components of these developers are listed in the Toxic Substances Control Act inventory as verified by our suppliers.

RCRA: TCLP below hazardous waste levels set by EPA.

California Proposition 65: Not listed.

CERCLA: Not listed.

SARA Extremely Hazardous Substances: Not listed.

SARA 313: Copper-Zinc ferrite is present in all developer colors and is a SARA 313 substance.

The ingredients of these toners are not listed as carcinogens by OSHA or NTP. Black toner does contain very small quantities of carbon black (<1%), which has been classified by the International Agency for Research on Cancer (IARC) as a class 2B carcinogen. IARC 2B materials are considered to be possibly carcinogenic to humans.

Section 16 – Other Information

Original preparation date: June 3, 1998. JMP
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MSDS information: (503) 627-7255

MSDS for Silicone Oil

Section 1 – Product Identification

Silicone oil, impregnated into oil roller of fuser roll cartridge (Tektronix part number 016-1866-00).

Product Use: Tektronix Phaser® 780 color printers

Section 2 – Information On Ingredients

Ingredients
Organo-functional polydimethylsiloxane.

Section 3 – Hazards Identification

ROUTES OF EXPOSURE: Skin, eyes.

POTENTIAL HEALTH EFFECTS: Health effects from this product are expected to be negligible, when product is used as intended.
Immediate Effects:
Inhalation: Not an expected route of entry.
Skin: Non-irritant and non-sensitizer for skin.
Eye: Non-irritating to eyes.
Ingestion: Not an expected route of exposure.
Chronic Effects: None known or expected.

SIGNS AND SYMPTOMS OF EXPOSURE: None when used as intended.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None when used as intended.

Section 4 – First Aid Measures

Inhalation: Not a route of exposure for this product.
Eyes: Flush thoroughly with water. Seek medical attention if symptoms occur.
Skin: Wash thoroughly with soap and water. Seek medical attention if symptoms of irritation occur.
Ingestion: Unlikely route of exposure. Dilute stomach contents by drinking several glasses of milk or water. Seek medical attention.

Section 5 – Fire-Fighting Measures

Flammable Properties:
Flash Point: Not applicable.
Fire & Explosion Hazards: No unusual hazards are expected.
Extinguishing media: Use CO_2, dry chemical, foam, or water. Avoid inhalation of smoke.
As for any fire, wear protective clothing and self-contained breathing apparatus.

Section 6 – Accidental Release Measures

Spill Or Leak: Oil is impregnated into oil roller of fuser roll cartridge. Small amounts (i.e., drops) may result from normal handling. Absorb and place in an appropriate disposal container.
Clean spills thoroughly because residue can be slippery.

Section 7 – Handling And Storage

Handling: Wash hands with soap and water after contact. Clean spills per Section 6.
Storage: No special requirements.

Section 8 – Exposure Control – Personal Protection

No special protection indicated when used as intended.

Section 9 – Physical And Chemical Properties

Appearance: Clear liquid impregnated into oil roller of fuser roll cartridge
Odor: Slight.
Solubility: This silicone oil is not water-soluble.
Specific Gravity: 0.97 (water=1).

Section 10 – Stability And Reactivity

Stability: Stable.
Incompatibility With Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Silicone dioxide, carbon dioxide, and traces of incompletely burned carbon products.
Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

Acute: Non-irritating to eyes. Non-sensitizer for skin. Non-irritant for skin. Not toxic, according to laboratory tests for acute oral and dermal toxicity.
Chronic: None detected in Ames and in vitro CHO assays.
Note: Toxicity data is based upon test results of this material as well as similar materials.

Section 12 – Ecological Information

Not available.

Section 13 – Disposal Considerations

Dispose in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT: Not regulated.

Section 15 – Regulatory Information

TSCA: Listed in the Toxic Substances Control Act inventory as verified by our suppliers.

California Proposition 65: Not listed.

CERCLA: Not listed.

SARA Extremely Hazardous Substances: Not listed.

SARA 313: Not listed.
This material is not listed as carcinogenic by OSHA, IARC or NTP.

Section 16 – Other Information

Original preparation date: June 3, 1998. JMP
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