SAFETY DATA SHEET

1. Identification

Product identifier       HP Color LaserJet W9051MC Cyan Print Cartridge
Other means of identification Not available.
Recommended use         This product is a cyan toner preparation that is used in HP Color LaserJet Managed MFP E87640, HP Color LaserJet Managed MFP E87650, HP Color LaserJet Managed MFP E87660 series printers.
Recommended restrictions None known.
Company identification   HP Inc.
                          1501 Page Mill Road
                          Palo Alto, CA 94304-1112
                          United States
                          Telephone 650-857-5020
                          HP Inc. health effects line
                          (Toll-free within the US) 1-800-457-4209
                          (Direct) 1-760-710-0048
                          HP Inc. Customer Care Line
                          (Toll-free within the US) 1-800-474-6836
                          (Direct) 1-208-323-2551
                          Email: hpcustomer.inquiries@hp.com

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements
Hazard symbol None.
Signal word None.
Hazard statement Not available.
Precautionary statement
  Prevention Not available.
  Response Not available.
  Storage Not available.
  Disposal Not available.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester resin</td>
<td>Polyester resin</td>
<td>Trade Secret</td>
<td>&lt;74</td>
</tr>
<tr>
<td>Ceramic materials and wares, chemicals</td>
<td>Trade Secret</td>
<td>&lt;15</td>
<td></td>
</tr>
<tr>
<td>Cyan Pigment</td>
<td></td>
<td>Trade Secret</td>
<td>&lt;15</td>
</tr>
<tr>
<td>Paraffin waxes and Hydrocarbon waxes</td>
<td></td>
<td>Trade Secret</td>
<td>&lt;15</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>Amorphous silica</td>
<td>Trade Secret</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td></td>
<td>Trade Secret</td>
<td>&lt;1.5</td>
</tr>
</tbody>
</table>

Material name: W9051MC
14239 Version #: 02 Revision date: 23-Mar-2017 Issue date: 14-Mar-2017
Composition comments

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First-aid measures

Inhalation
Move person to fresh air immediately. If irritation persists, consult a physician.

Skin contact
Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

Eye contact
Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists, consult a physician.

Ingestion
Rinse mouth with water. Drink one to two glasses of water. DO NOT induce vomiting. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Difficulty in breathing. Coughing.

5. Fire-fighting measures

Suitable extinguishing media
ABC powder, foam and water. Alcohol resistant foam.

Unsuitable extinguishing media
Do not use water jet.

Specific hazards arising from the chemical
Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.

Combustion will produce carbon dioxide, carbon monoxide, and nitrogen oxides.

Special protective equipment and precautions for firefighters
Wear self-contained breathing apparatus and protective clothing. Wear full set of protective equipment including chemical goggles and gloves.

Fire-fighting equipment/instructions
If fire occurs in the printer, treat as an electrical fire.

Specific methods
None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid inhalation of dust. Wash thoroughly after dealing with a spillage. See Section 8 of the SDS for Personal Protective Equipment. Ensure adequate ventilation. Remove victim immediately from source of exposure. Emergency personnel should wear self-contained breathing apparatus.

Methods and materials for containment and cleaning up
Small Spills: Remove sources of ignition.

Large Spills: Wear appropriate protective equipment and clothing during clean-up. Remove small spills with vacuum cleaner. Wipe up with absorbent material (e.g. cloth, fleece).

Environmental precautions
Avoid spreading dust or contaminated materials. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling
Use local exhaust ventilation. Take precautionary measures against static discharges. Use only in well-ventilated areas. Ground and bond containers when transferring material. Avoid inhalation of dust and contact with skin and eyes. Keep away from excessive heat, sparks, and open flames.

Conditions for safe storage, including any incompatibilities
Keep out of the reach of children. Wash hands after handling. When using, do not eat, drink or smoke. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Keep tightly closed and dry. Store at room temperature.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS Trade Secret)</td>
<td>PEL</td>
<td>15 mg/m3</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>
### US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paraffin waxes and Hydrocarbon waxes (CAS Trade Secret)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Fume.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS Trade Secret)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paraffin waxes and Hydrocarbon waxes (CAS Trade Secret)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Fume.</td>
</tr>
<tr>
<td>Silicon dioxide (CAS Trade Secret)</td>
<td>TWA</td>
<td>6 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### Biological limit values
No biological exposure limits noted for the ingredient(s).

### Exposure guidelines
USA OSHA (TWA/PEL): 10 mg/m³ (Total Dust)
ACGIH (TWA/TLV): 15 mg/m³ (Inhalable Particulate)

### Appropriate engineering controls
Use in a well ventilated area.

### Individual protection measures, such as personal protective equipment
- **Eye/face protection**: Wear safety glasses with side shields (or goggles).
- **Skin protection**: Rubber gloves are recommended. Wash hands after handling.
- **Respiratory protection**: No personal respiratory protective equipment required under normal conditions of use.
- **General hygiene considerations**: Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product.

### 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Fine powder</td>
</tr>
<tr>
<td><strong>Physical state</strong></td>
<td>Solid.</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Cyan</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Odorless</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Not flammable</td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
Solubility(ies)

- Solubility (water): Insoluble in water. Partially soluble in toluene, chloroform and tetrahydrofurane

Partition coefficient (n-octanol/water)

- Not available.

Auto-ignition temperature

- No data available

Decomposition temperature

- Not available.

Viscosity

- Not applicable

Other information

- Percent volatile: 0 % estimated
- Specific gravity: 1.2 g/ml
- Not available.

10. Stability and reactivity

- Reactivity: Not available.
- Chemical stability: Stable under normal storage conditions.
- Possibility of hazardous reactions: Not available.
- Conditions to avoid: Risk of dust explosion. Shocks and physical damage.
- Incompatible materials: No information available.
- Hazardous decomposition products: Not known.

11. Toxicological information

- Symptoms related to the physical, chemical and toxicological characteristics: Not available.
- Information on toxicological effects:
  - Acute toxicity: Based on available data, the classification criteria are not met. LD50/oral/rat >5000 mg/kg
  - Skin corrosion/irritation: Based on available data, the classification criteria are not met. Not a known irritant. (OECD 404)
  - Serious eye damage/eye irritation: Based on available data, the classification criteria are not met. Not a known irritant. (OECD 405)
- Respiratory or skin sensitization:
  - Respiratory sensitization: Based on available data, the classification criteria are not met.
  - Skin sensitization: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity: Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
  - Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
  - IARC Monographs. Overall Evaluation of Carcinogenicity:
    - Silicon dioxide (CAS Trade Secret): 3 Not classifiable as to carcinogenicity to humans.
    - Titanium dioxide (CAS Trade Secret): 2B Possibly carcinogenic to humans.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- Specific target organ toxicity:
  - single exposure: Based on available data, the classification criteria are not met.
  - repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.
- Further information: Complete toxicity data are not available for this specific formulation
  - Refer to Section 2 for potential health effects and Section 4 for first aid measures.

In a study in rats (H.Muhle) by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the concentration (16mg/m3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m3) exposure group. But no pulmonary changes were reported in the lowest (1mg/m3) exposure group, the most relevant level to potential human exposures.
### Test Results

**Components**  
Ceramic materials and wares, chemicals (CAS Trade Secret)

#### Acute
- **Dermal**
  - **LD50**  
    - Rabbit: > 2500 mg/kg

- **Inhalation**
  - **LC50**  
    - Rat: > 2.3 mg/l, 4 Hours
    - > 0.888 mg/l

- **Oral**
  - **LD50**  
    - Rat: > 2000 mg/kg
    - Mouse: > 15000 mg/kg
    - Rat: > 22500 mg/kg

#### 12. Ecological information

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>W9051MC (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td><strong>EC50</strong></td>
<td>Invertebrates (Invertebrates)</td>
</tr>
<tr>
<td>Fish</td>
<td><strong>LC50</strong></td>
<td>Fish</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramic materials and wares, chemicals (CAS Trade Secret)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td><strong>ErC50</strong></td>
<td>Algae</td>
</tr>
<tr>
<td>Crustacea</td>
<td><strong>EC50</strong></td>
<td>Invertebrates (Invertebrates)</td>
</tr>
<tr>
<td>Fish</td>
<td><strong>LC50</strong></td>
<td>Fish</td>
</tr>
<tr>
<td><strong>Chronic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td><strong>EC50</strong></td>
<td>Fish</td>
</tr>
<tr>
<td>LC50</td>
<td>Fish</td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td><strong>EC50</strong></td>
<td>Water flea (Daphnia magna)</td>
</tr>
<tr>
<td>Fish</td>
<td><strong>LC50</strong></td>
<td>Mummichog (Fundulus heteroclitus)</td>
</tr>
</tbody>
</table>

**Persistence and degradability**  
Not available.

**Bioaccumulative potential**  
Not available.

**Mobility in soil**  
Not available.

**Other adverse effects**  
Not available.

### 13. Disposal considerations

**Disposal instructions**

Dispose of in compliance with federal, state, and local regulations. Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Do not put toner container into fire; heated toner may cause severe burns. Do not incinerate. Do not allow this material to drain into sewers/water supplies.

HP’s Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit [http://www.hp.com/recycle](http://www.hp.com/recycle).

### 14. Transport information

**DOT**

Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

ADR
Not regulated as dangerous goods.

Further information
Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory information

US federal regulations
US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
No

Other federal regulations
Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations

US. Massachusetts RTK - Substance List
Paraffin waxes and Hydrocarbon waxes (CAS Trade Secret)
Silicon dioxide (CAS Trade Secret)
Titanium dioxide (CAS Trade Secret)

US. New Jersey Worker and Community Right-to-Know Act
Paraffin waxes and Hydrocarbon waxes (CAS Trade Secret)
Titanium dioxide (CAS Trade Secret)

US. Pennsylvania Worker and Community Right-to-Know Law
Paraffin waxes and Hydrocarbon waxes (CAS Trade Secret)
Silicon dioxide (CAS Trade Secret)
Titanium dioxide (CAS Trade Secret)

US. Rhode Island RTK
Not regulated.

US. California Proposition 65
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
TITANIUM DIOXIDE (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE) (CAS Trade Secret) Listed: September 2, 2011
Regulatory information
All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

16. Other information, including date of preparation or last revision

Issue date 14-Mar-2017
Revision date 23-Mar-2017
Version # 02

Disclaimer
This [Material] Safety Data Sheet is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this (M)SDS and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application.

Manufacturer information
HP Inc.
11311 Chinden Boulevard
Boise, ID 83714 USA
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209

Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists
CAS Chemical Abstracts Service
CERCLA Comprehensive Environmental Response Compensation and Liability Act
CFR Code of Federal Regulations
COC Cleveland Open Cup
DOT Department of Transportation
EPCRA Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC International Agency for Research on Cancer
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
RCRA Resource Conservation and Recovery Act
REC Recommended
REL Recommended Exposure Limit
SARA Superfund Amendments and Reauthorization Act of 1986
STEL Short-Term Exposure Limit
TCLP Toxicity Characteristics Leaching Procedure
TLV Threshold Limit Value
TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds