



SAFETY DATA SHEET

1. Identification

| | |
|---|--|
| Product identifier | HP Color LaserJet W9052MC Yellow Print Cartridge |
| Other means of identification | None. |
| Recommended use | This product is a yellow 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. |
| Manufacturer/Importer/Supplier/Distributor information | |
| | Hewlett-Packard Vietnam Ltd. Suite 1002, 29 Le Duan, Saigon Tower, 10th floor District 1, Ho Chi Minh city, Ho Chi Minh (Sai Gon), Viet Nam |
| Telephone | +84437245550 |
| HP Inc. health effect line | |
| (Toll-free within 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. |
| 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. |
| Other hazards which do not result in classification | None known. |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Hazardous components | | | |
|--|---------------------------------|-------------------|----------|
| Chemical name | Common name and synonyms | CAS number | % |
| Titanium dioxide | | Trade Secret | <1.5 |
| Non-hazardous components | | | |
| Chemical name | Common name and synonyms | CAS number | % |
| Polyester resin | Polyester resin | Trade Secret | <74 |
| Ceramic materials and wares, chemicals | | Trade Secret | <15 |
| Paraffin waxes and Hydrocarbon waxes | | Trade Secret | <15 |

| Non-hazardous components | | | |
|--------------------------|--------------------------|--------------|-----|
| Chemical name | Common name and synonyms | CAS number | % |
| Yellow Pigment | | Trade Secret | <15 |
| Silicon dioxide | Amorphous silica | Trade Secret | <10 |

4. First-aid measures

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| 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. |
| 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

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|--|---|
| 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 | Clean remainder with a damp cloth or vacuum cleaner. Slowly vacuum or sweep the material into a bag or other sealed container. If a vacuum is used, the motor must be rated as dust explosion-proof. Fine powder can form explosive dust-air mixtures. Dispose of in compliance with federal, state, and local regulations. |
| Environmental precautions | Avoid spreading dust or contaminated materials. Avoid discharge into drains, water courses or onto the ground. |

7. Handling and storage

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|---|--|
| 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

| Vietnam. OELs | | | |
|--------------------------------------|------|----------|------------------|
| Components | Type | Value | Form |
| Paraffin waxes and Hydrocarbon waxes | STEL | 6 mg/m3 | |
| | TWA | 1 mg/m3 | |
| Titanium dioxide | STEL | 10 mg/m3 | Inhalable dust. |
| | TWA | 6 mg/m3 | Inhalable dust. |
| | TWA | 5 mg/m3 | Respirable dust. |
| US. ACGIH Threshold Limit Values | | | |
| Components | Type | Value | Form |
| Paraffin waxes and Hydrocarbon waxes | TWA | 2 mg/m3 | Fume. |
| | TWA | 10 mg/m3 | |

| | |
|--|--|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| 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 | |
| Hand protection | Rubber gloves are recommended. Wash hands after handling. |
| Other | Protection suit must be worn. |
| Respiratory protection | No personal respiratory protective equipment required under normal conditions of use. |
| Thermal hazards | Not available. |
| 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

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|---|---|
| Appearance | Fine powder |
| Physical state | Solid. |
| Form | solid |
| Color | Yellow |
| Odor | Odorless |
| Odor threshold | No information available |
| pH | Not applicable |
| Melting point/freezing point | No information available |
| Initial boiling point and boiling range | Not applicable |
| Flash point | Not applicable |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not flammable |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not applicable |
| Vapor density | Not applicable |
| 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 | |
| Oxidizing properties | No information available. |
| Percent volatile | 0 % estimated |
| Specific gravity | 1.2 g/ml |

10. Stability and reactivity

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|---|---|
| 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

Information on likely routes of exposure

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|---------------------|--|
| Inhalation | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| Skin contact | Contact with skin may result in mild irritation. |
| Eye contact | Contact with eyes may result in mild irritation. |
| Ingestion | Ingestion is not a likely route of exposure. |

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

| Components | Species | Test Results |
|--|----------------|-------------------------------------|
| Ceramic materials and wares, chemicals | | |
| 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 |

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.

ACGIH Carcinogens

Titanium dioxide (CAS Trade Secret) A4 Not classifiable as a human carcinogen.

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.

Specific target organ toxicity - 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 was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

12. Ecological information

Ecotoxicity Not available.

| Product | Species | | Test Results |
|---|--|-------------------------------|--------------------|
| W9052MC | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Invertebrates (Invertebrates) | 1.9 mg/l, 48 Hours |
| Fish | LC50 | Fish | 457 mg/l, 96 Hours |
| Components | | | |
| Species | | | |
| Ceramic materials and wares, chemicals (CAS Trade Secret) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Algae | ErC50 | Algae | 184.6 mg/l, 72 h |
| Crustacea | EC50 | Invertebrates (Invertebrates) | 1.9 mg/l, 48 h |
| Fish | LC50 | Fish | 457 mg/l, 96 h |
| <i>Chronic</i> | | | |
| Fish | EC50 | Fish | 0.151 mg/l, 7 d |
| | LC50 | Fish | 1.94 mg/l, 16 d |
| Persistence and degradability | Not available. | | |
| Bioaccumulative potential | Not available. | | |
| Mobility in soil | Not available. | | |
| Other adverse effects | This product has not been tested for ecological effects. | | |

13. Disposal considerations

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| 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 . |
| Waste from residues / unused products | Not available. |
| Contaminated packaging | Not available. |

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

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| National regulations |
| Ozone Depleting Substances (ODS) Joint circular No. 14/2005/TTLT-BTM-BTNMT |
| Not regulated. |
| Vietnam. Chemicals that must be declared (Decree No. 108/2008/ND-CP, App. 5, Oct. 7, 2008, as amended through Decree No. 26/2011/ND-CP, April 8, 2011) |
| Silicon dioxide (CAS Trade Secret) |
| Vietnam. Toxic Chemicals Requiring Sale & Purchase Control Slips (Decree No. 26/2011/ND-CP, App. 6, April 8, 2011) |
| Not regulated. |
| Vietnam. CWC (Decree No. 100/2005/ND-CP, Implementation of Chemical Weapons Convention, Appendix 1, Schedules 1-3, August 3, 2005) |
| Not regulated. |
| Vietnam. Drug Precursor & Essential Substances (Decree No. 67/2001/ND-CP, List IV, as amended through Decree No. 17/2011/ND-CP, Feb. 22, 2011) |
| Not regulated. |

International regulations

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.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

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

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Version # 03

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Revision information

Fire-fighting measures: Specific hazards arising from the chemical
Accidental release measures: Methods and materials for containment and cleaning up
Toxicological information: Further information
Toxicological information: Eye contact
Toxicological information: Ingestion
Toxicological information: Inhalation
Toxicological information: Skin contact
Regulatory information: International regulations
Other information, including date of preparation or last revision: Disclaimer

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 |