



SAFETY DATA SHEET

1. Product and company identification

Product name W9037MC
Company identification HP New Zealand
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Recommended use and Limitations on use

Recommended use This product is a toner preparation that is used in HP LaserJet Managed MFP E82540, HP LaserJet Managed MFP E82550, HP LaserJet Managed MFP E82560 series printers.

2. Hazards identification

GHS classification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements

Symbols None.
Signal word None.
Hazard statement None.

Precautionary statement

Prevention None.
Response None.
Storage None.
Disposal None.

Other hazards

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA. This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC) 1907/2006.

Supplemental information None.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical property	Synonyms	CAS Number	Concentration (%)
Polyester resin	Polyester resin	Trade Secret	<74
Carbon black		1333-86-4	<15
Ceramic materials and wares, chemicals		Trade Secret	<15
Paraffin waxes and Hydrocarbon waxes		Trade Secret	<15
Silicon dioxide	Amorphous silica	Trade Secret	<10
Titanium dioxide		Trade Secret	<1.5

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. If symptoms occur, consult a physician.
Potential delayed effects	Difficulty in breathing. Coughing.
Personal protection for first-aid responders	Not available.
Notes to physician	Not available.

5. Fire-fighting measures

Extinguishing media	Water spray, dry chemical, carbon dioxide.
Extinguishing media to avoid	None known.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
Special fire fighting procedures	If fire occurs in the printer, treat as an electrical fire.
Protection of fire-fighters	Wear self-contained breathing apparatus and protective clothing. Wear full set of protective equipment including chemical goggles and gloves.
Hazards from combustion products	Carbon monoxide and carbon dioxide.
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.
Environmental precautions	Avoid spreading dust or contaminated materials. Avoid discharge into drains, water courses or onto the ground.
Spill cleanup methods	Slowly vacuum or sweep the material into a bag or other sealed container. Clean remainder with a damp cloth or vacuum cleaner. 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.

7. Handling and storage

Handling	
Precautions	Not available.
Safe handling advice	Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after handling. Keep away from excessive heat, sparks, and open flames.
Prevention of fire and explosion	Not available.
Storage	
Suitable storage conditions	Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers.
Incompatible materials	Not available.

8. Exposure controls/personal protection

Exposure limits

New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	
Paraffin waxes and Hydrocarbon waxes	TWA	2 mg/m3	Fume.
Titanium dioxide	TWA	10 mg/m3	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Paraffin waxes and Hydrocarbon waxes	TWA	2 mg/m3	Fume.
Titanium dioxide	TWA	10 mg/m3	

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3	
Paraffin waxes and Hydrocarbon waxes	TWA	3.5 mg/m3	
	STEL	6 mg/m3	Fume.
	TWA	2 mg/m3	Fume.
Titanium dioxide	TWA	4 mg/m3	Respirable.
		10 mg/m3	Inhalable

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	
Paraffin waxes and Hydrocarbon waxes	TWA	2 mg/m3	Fume.
Silicon dioxide	TWA	2 mg/m3	Respirable dust.
Titanium dioxide	TWA	10 mg/m3	Inhalable dust.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	
Paraffin waxes and Hydrocarbon waxes	TWA	2 mg/m3	Fume.
Silicon dioxide	TWA	2 mg/m3	Respirable fraction.
Titanium dioxide	TWA	10 mg/m3	Inspirable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Engineering controls

Use in a well ventilated area.

Personal protective equipment**Respiratory protection**

No personal respiratory protective equipment required under normal conditions of use.

Hand protection

Rubber gloves are recommended. Wash hands after handling.

Skin protection

Protection suit must be worn.

Eye/face protection

Wear safety glasses with side shields (or goggles).

Radioactive or thermal hazards

Not available.

Hygiene measures

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance	Fine powder
Physical state	Solid.
Form	solid
Color	Black.
Odor	Odorless
Odor threshold	No information available
pH	Not applicable
Melting point/freezing point	No information available
Boiling point, initial boiling point, and boiling range	Not applicable
Flash point	Not applicable
Auto-ignition temperature	No data available
Flammability (solid, gas)	Not available.
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
Evaporation rate	Not available.
Solubility(ies)	
Solubility (water)	Insoluble in water. Partially soluble in toluene, chloroform and tetrahydrofurane
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable
Percent volatile	0 % estimated
Other data	
Oxidizing properties	No information available.
Specific gravity	1.2 g/ml

10. Stability and reactivity

Reactivity	Not available.
Stability	Stable under normal storage conditions.
Conditions to avoid	Heat, sparks, flames. Sunlight. Avoid dust close to ignition sources.
Incompatible materials	This product may react with strong oxidizing agents. This product may react with strong acids.
Hazardous decomposition products	Carbon monoxide and carbon dioxide. Hydrogen.
Possibility of hazardous reactions	Stable

11. Toxicological information

Information on likely routes of exposure

Ingestion	Ingestion is not a likely route of exposure.
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.

Acute toxicity Based on available data, the classification criteria are not met. LD50/oral/rat >5000 mg/kg

Components	Species	Test Results
Carbon black (CAS 1333-86-4)		
Acute		
Oral		
LD50	Rat	> 10000 mg/kg
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
Routes of exposure	Not available.	
Symptoms	Not available.	
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 sensitizer	Based on available data, the classification criteria are not met.	
Skin sensitizer	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. Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
Silicon dioxide (CAS Trade Secret)	3 Not classifiable as to carcinogenicity to humans.
Titanium dioxide (CAS Trade Secret)	2B Possibly carcinogenic to humans.

Toxic to reproduction	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.
Chronic effects	Not available.
Relevant negative data	Not available.
Other 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

Ecotoxicological data

Components	Species	Test Results
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

Ecotoxicity	Not available.
Persistence and degradability	Not available.
Bioaccumulation	Not available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
Mobility	Not available.
Other hazardous effects	This product has not been tested for ecological effects.

13. Disposal considerations

Disposal methods/information 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>.

Special precautions 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

Applicable regulations

New Zealand Inventory of Chemicals (NZIoC): Registration status

Carbon black (CAS 1333-86-4)	HSNO Approved
Ceramic materials and wares, chemicals (CAS Trade Secret)	May be used as a single component chemical under an appropriate group standard
Paraffin waxes and Hydrocarbon waxes (CAS Trade Secret)	May be used as a single component chemical under an appropriate group standard
Silicon dioxide (CAS Trade Secret)	May be used as a single component chemical under an appropriate group standard
Titanium dioxide (CAS Trade Secret)	May be used as a single component chemical under an appropriate group standard

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

References Not available.

Issued by
Not available.

Prepared by
Not available.

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Revision information 1. Product and Company Identification: Product and Company Identification

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