# MATERIAL SAFETY DATA SHEET

# 1. Chemical product and company identification

Important information \*\*\* This Safety Data Sheet is only authorised for use by HP for HP Original products. Any

unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action

being taken by HP. \*\*\*

A. Product name MLT-D309Series
Other means of identification Not available.

B. Recommended use and Limitations on use

**Recommended use**This product is a toner mixture that is used in printing systems.

C. Supplier information

HP Korea House 23-6 Yoido-dong Youngdeungpo-gu Seoul 150-742, Korea

**Telephone** (02) 2199-0114

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. Hazards identification

### A. Hazard category/Classification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

# B. Warning label items including precautionary statement

Pictogram None.
 Signal word None.
 Hazard statement None.
 Precautionary statement None.

C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)

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.

Supplemental information None.

### 3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)	
Black Pigment		Proprietary	Proprietary	<5	
Paraffin waxes and Hydro	ocarbon waxes	8002-74-2	KE-27782	<2.5	
Isobutyltrimethoxysilane		18395-30-7	97-3-164	<1	
Titanium dioxide		13463-67-7	KE-33900	<1	
Amorphous silica Amorphous silica		7631-86-9	KE-31032	<0.1	

4. First aid measures

A. In case of 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.

B. In case of skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

C. In case of inhalation Move person to fresh air immediately. If irritation persists, consult a physician.

D. In case of swallowing Rinse mouth with water. Drink one to two glasses of water. DO NOT induce vomiting. Get medical

attention immediately.

Treat symptomatically.

E. Note to physician

Most important

symptoms/effects, acute and

delayed

Difficulty in breathing. Coughing.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

### A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

General advice

Dry chemical, foam, carbon dioxide, water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

B. Specific hazards arising from the chemical (example: hazardous combustion products)

During fire, gases hazardous to health may be formed.

### C. Specific methods of fire-fighting

Special protective

equipment for firefighters

Special fire fighting procedures

Firefighters should wear full protective clothing including self contained breathing apparatus.

Move containers from fire area if you can do so without risk.

**General fire hazards** No unusual fire or explosion hazards noted.

**Specific methods**Use standard firefighting procedures and consider the hazards of other involved materials.

# 6. Accidental release measures

A. Personal precautions, protective equipment and emergency measures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. See Section 8 of the MSDS for Personal Protective Equipment.

B. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

C. Methods and materials for containment and cleaning up

Avoid the generation of dusts during clean-up. Use explosion proof electric equipment. Collect dust using a vacuum cleaner equipped with HEPA filter. The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Sweep up or vacuum up spillage and collect in suitable container for disposal.

### 7. Handling and storage

A. Precautions for safe handling

Minimize dust generation and accumulation. Use local exhaust ventilation. Avoid prolonged exposure. Practice good housekeeping.

B. Conditions for safe storage (including any incompatibilities)

Store in tightly closed original container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the MSDS).

# 8. Exposure controls/personal protection

# A. Exposure limit values, biological limit values, etc

Components	Туре	Value	Form
Black Pigment	TWA	3.5 mg/m3	
Paraffin waxes and Hydrocarbon waxes (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

US. ACGIH Threshold Limit Values						
Components	Type	Value	Form			
Black Pigment	TWA	3 mg/m3	Inhalable fraction.			
Paraffin waxes and Hydrocarbon waxes (CAS 8002-74-2)	TWA	2 mg/m3	Fume.			
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3				

**Biological limit values** 

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

B. Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

### C. Personal protective equipment

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

Wear safety glasses with side shields (or goggles). Eye protection

Rubber gloves are recommended. Wash hands after handling. Hand protection

 Body protection Protection suit must be worn.

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately Hygiene measures

after handling the product.

# 9. Physical and chemical properties

### A. Appearance

**Physical state** Not available. Solid. Fine powder **Form** 

Color Black. B. Odor Odorless C. Odor threshold Not available. D. pH Not available. Not available. E. Melting point/freezing point F. Boiling point, initial boiling Not available.

point, and boiling range

G. Flash point Not available. Not available. H. Evaporation rate Not available. I. Flammability (solid, gas)

# J. Upper/lower limit on flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

K. Vapor pressure

Not available.

L. Solubility

Insoluble in water. Solubility (water)

Partially soluble in toluene, chloroform and tetrahydrofuran Solubility (other)

M. Vapor density Not available. N. Specific gravity Not available. O. n-octanol/water partition Not available.

coefficient

Not available. P. Auto-ignition temperature Q. Decomposition temperature > 392 °F (> 200 °C) R. Viscosity Not available. S. Molecular weight Not available.

Other data

**Oxidizing properties** No information available.

# 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

A. Stability and hazardous reaction potential

Stable under normal storage conditions. Stability

**Hazardous reaction** 

potential

No dangerous reaction known under conditions of normal use.

Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

B. Conditions to avoid (e.g. static discharge, shock or

vibration, etc)

materials.

C. Incompatible materials

This product may react with strong oxidizing agents.

D. Hazardous decomposition

products

Carbon monoxide and carbon dioxide.

# 11. Toxicological information

### A. Information on likely routes of exposure

· Respiratory organs Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Dust or powder may irritate the skin. Skin

Dust may irritate the eyes. Eyes

 Mouth Expected to be a low ingestion hazard.

#### B. Information on health hazards

· Acute toxicity (list all possible routes of

exposure)

Based on available data, the classification criteria are not met.

LD50/oral/rat >5000 mg/kg.

Components **Test Results Species** 

**Black Pigment** 

**Acute** Oral

LD50 > 10000 mg/kg Rat

· Corrosivity or irritation to

the skin

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 sensitization

Not a respiratory sensitizer.

 Skin sensitization Carcinogenic properties

/Carcinogenicity

This product is not expected to cause skin sensitization. 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

Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Mutagenic properties

/Mutagenicity

Based on available data, the classification criteria are not met. Negative Ames Test (Test strains: Salmonella typhimurium).

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

• 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.

# 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the A. Ecotoxicity possibility that large or frequent spills can have a harmful or damaging effect on the environment. B. Persistence/degradability No data is available on the degradability of any ingredients in the mixture.

C. Bioaccumulative potential
 D. Mobility in soil
 Not available.
 Not available.
 Not available.

# 13. Disposal considerations

### A. Method of disposal

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.

B. Disposal considerations (including disposal of contaminated containers or 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

### A. Restrictions under the Industrial Safety and Health Law

### Harmful Substances Prohibited from Manufacturing

Not regulated.

### Harmful Substances Requiring Permission for Manufacture or Use

Not regulated.

# **Controlled Hazardous Substances**

Not regulated.

### **Harmful Substances Requiring Special Medical Examination**

Not regulated.

# Workplace Environmental Monitoring Harmful Materials

Not regulated.

### **Occupational Exposure Limit**

Paraffin waxes and Hydrocarbon waxes (CAS 8002-74-2)

Titanium dioxide (CAS 13463-67-7)

# B. Restrictions under the Chemicals Control Law (Previously Toxic Chemicals Control Law)

### **Accidental Release Prevention Substances**

Not regulated.

### Act on the Registration and Evaluation of Chemicals

# **Banned Toxic Chemicals**

Not regulated.

### Designated Existing Chemicals Subject to Registration (PEC) (MoE No. 2015-92)

Not listed.

### **Restricted Chemical Substances**

Not regulated.

### **Toxic Chemicals**

Not regulated.

# C. Restrictions under the Dangerous Substance Safety Management Act

### D. Restrictions under the Wastes Control Act

# **Halogenated Materials in Waste Organic Solvents**

Not regulated.

#### **Hazardous Substances**

Not regulated.

### E. Restrictions under other foreign or domestic laws

#### **Clean Air Conservation Act**

**Air Pollutants** 

Not regulated.

Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides (Rules on PIC, MoE No. 2014-252, Dec. 31, 2014; Standards for Pesticides, RDA No. 2014-26), as amended

Not listed

**Specific Air Pollutants** 

Not regulated.

**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

A. Source of information

06-Nov-2019

C. Number of revisions and

B. Issue date

20-Oct-2020 (02 revision)

date of most recent revision

Not available.

Not available

Disclaimer

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document 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. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

### **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