# **MATERIAL SAFETY DATA SHEET**



# 1. Chemical product and company identification

A. Product name CLT-P407A

B. Recommended use and Limitations on use

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

**Limitations on use** Do not use with non compatible printer.

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 (%)
Paraffin waxes and Hydrocarbon waxes		8002-74-2	KE-27782	<10
Carbon black		1333-86-4	KE-04682	<5
Titanium dioxide		13463-67-7	KE-33900	<2.5

## 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.

E. Note to physician

Treat symptomatically.

General advice

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

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

Special fire fighting

procedures

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

General fire hazards No unusual fire or explosion hazards noted.

Equipment.

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

### 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

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

Korea. OELs. Standards for Exposure to Chemical Substances and Physically Hazardous Factors Value Form Components Type

•			
Carbon black (CAS 1333-86-4)	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	
<b>US. ACGIH Threshold Limit Values</b>			
Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	<b>Type</b> TWA	Value 3 mg/m3	Form Inhalable fraction.
Carbon black (CAS			

**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

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

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

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

Protection suit must be worn. Body protection

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. **Form** Solid. Fine powder

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

point, and boiling range

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

### 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. Not available. K. Vapor pressure

L. Solubility

Insoluble in water. Solubility (water)

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

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

coefficient

Not available. P. Auto-ignition temperature > 392 °F (> 200 °C) Q. Decomposition temperature

R. Viscosity Not available. S. Molecular weight Not available.

Other data

No information available. Oxidizing properties

# 10. Stability and reactivity

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

### A. Stability and hazardous reaction potential

Stability Stable under normal storage conditions.

**Hazardous reaction** 

potential

No dangerous reaction known under conditions of normal use.

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

Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

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

 Eyes Contact with eyes may result in mild irritation. • 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** 

Carbon black (CAS 1333-86-4)

Acute Oral

LD50 Rat > 10000 mg/kg

· 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

This product is not expected to cause skin sensitization.

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

A. Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

B. Persistence/degradability

E. Other adverse effects

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**

TITANIUM DIOXIDE (CAS 13463-67-7)

# Harmful Substances Requiring Special Medical Examination

Not regulated.

# **Workplace Environmental Monitoring Harmful Materials**

TITANIUM DIOXIDE (CAS 13463-67-7)

### **Occupational Exposure Limit**

CARBON BLACK (CAS 1333-86-4)
PARAFFIN WAX FUME (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.

### **Observational 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.

# **Specific Air Pollutants**

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.

**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 Not available.

B. Issue date 21-Aug-2018

C. Number of revisions and date of most recent revision

31-Aug-2018 (03 revision)

D. Other

Not available.

Disclaimer

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### **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)

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