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# SAFETY DATA SHEET

1. 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. \*\*\*

Product identifier CLT-P407B

Other means of identification None.

Recommended use of the chemical and restrictions on use

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

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

Details of manufacturer or importer

HP PPS Australia Pty Ltd 353 Burwood Hwy L1

Forest Hill, Victoria, Australia 3131

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

### Classification of the hazardous chemical

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

# Label elements, including precautionary statements

Hazard symbol(s) None.
Signal word None.

Hazard statement(s) Not available.

Precautionary statement(s)

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Other hazards which do not

result in classification

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.

Titanium dioxide is classified by IARC as a Group 2B carcinogen, meaning there is inadequate evidence in humans for the carcinogenicity of titanium dioxide, but there is sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide. Titanium dioxide 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.

GHS Supplemental information None.

# 3. Composition/information on ingredients

### **Mixture**

D	
Proprietary	<90%
Proprietary	<10%
1333-86-4	<7.5%
68909-20-6	<5%
Proprietary	<2%
13463-67-7	<2%
	68909-20-6 Proprietary

### 4. First-aid measures

## Description of necessary first aid measures

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

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

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

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.

Personal protection for first-aid

responders

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

protect themselves.

Symptoms caused by exposure

Medical attention and special

treatment

Difficulty in breathing. Coughing. Treat symptomatically.

## 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Dry chemical, foam, carbon dioxide, water fog.

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

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire

fighters

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

Fire fighting

equipment/instructions

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

Hazchem code

None.

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

# Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

14606

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 SDS for Personal Protective Equipment.

For emergency responders

Not available.

**Environmental precautions** 

Methods and materials for containment and cleaning up Avoid discharge into drains, water courses or onto the ground.

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.

Other issues relating to spills and releases

Fine powder can form explosive dust-air mixtures. Take up mechanically and collect in suitable container for disposal. Dispose of in compliance with federal, state, and local regulations.

# 7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Use local exhaust ventilation. Avoid prolonged

exposure. Practice good housekeeping.

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 SDS).

# 8. Exposure controls and personal protection

### **Control parameters**

#### Occupational exposure limits

Components	olace OELs (Workplace Exposure Standar Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Inhalable dust.
Wax	TWA	2 mg/m3	Fume.
Australia. OELs. (Adopte Environment)	d National Exposure Standards for Atmos	pheric Contaminants in th	ne Occupational
Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Inspirable dust.
Wax	TWA	2 mg/m3	Fume.
US. ACGIH Threshold Lin	nit Values		
Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Wax	TWA	2 mg/m3	Fume.
UK. EH40 Workplace Exp	osure Limits (WELs)		
Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3	
•	TWA	3.5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable.
•		10 mg/m3	Inhalable
Wax	STEL	6 mg/m3	Fume.
	TWA	2 mg/m3	Fume.
ogical limit values	No biological exposure limits noted for the	ne ingredient(s).	
sure guidelines	5 mg/m3 (Respirable Fraction)		
	3 mg/m3 (Respirable Particulate)		

# Bio

Exp

### 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.

# Individual protection measures, for example personal protective equipment (PPE)

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

Skin protection

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

Other Protection suit must be worn.

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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** 

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

Color Black. Odor Odorless Not available. Odor threshold Not available. pН Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Not available.

Flammability limit - lower

Flammability limit - upper

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available. Not available. Vapor pressure Not available. Vapor density

Solubility(ies)

Insoluble in water. Solubility (water)

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

Not available.

Partition coefficient Not available.

(n-octanol/water)

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

Other physical and chemical parameters

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.

Stable under normal storage conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials.

Incompatible materials

Hazardous decomposition

products

This product may react with strong oxidizing agents.

Carbon monoxide and carbon dioxide.

# 11. Toxicological information

Information on possible routes of exposure

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful.

**Skin contact** Dust or powder may irritate the skin.

**Eye contact** Contact with eyes may result in mild irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to exposure Not available.

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

**Skin corrosion/irritation**Based on available data, the classification criteria are not met.

Not a known irritant. (OECD 404).

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Not a known irritant. (OECD 405).

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

Negative Ames Test (Test strains: Salmonella typhimurium).

**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.

Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to titanium

dioxide is much lower.

None of the other ingredients in this preparation are classified as carcinogens according to

ACGIH, EU, IARC, MAK, NTP or OSHA.

**ACGIH Carcinogens** 

Carbon black (CAS 1333-86-4)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Titanium dioxide (CAS 13463-67-7)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans. Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

**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.

### 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.

In 1996, the IARC revaluated carbon black as a GROUP 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the developer of lung tumors in rat receiving chronic inhalation exposures to free carbon black at level that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

# 12. Ecological information

**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.

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture. Not available.

Bioaccumulative potential Mobility in soil

Not available.

Other adverse effects This product has not been tested for ecological effects.

# 13. Disposal considerations

Disposal methods

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.

## 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

Safety, health and environmental regulations

**National regulations** 

High Volume Industrial Chemicals (HVIC)

Carbon black (CAS 1333-86-4) 10000 - 99999 TONNES See the regulation for additional

information.

Titanium dioxide (CAS 13463-67-7) 100000 - 999999 TONNES See the regulation for additional

information.

Wax (CAS Proprietary) 1000 - 9999 TONNES See the regulation for additional

information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

### **Prohibited Carcinogenic Substances**

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

**Restricted Carcinogenic Substances** 

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.

**Kyoto protocol** 

Not applicable.

**Montreal Protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

# 16. Other information

Issue date 30-Dec-2018
Revision date 07-Aug-2019

Other information

This SDS was prepared in compliance with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets", 2003.

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.

**Revision information** 

1. Product and Company Identification: Alternate Trade Names

## **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