

SAFETY DATA SHEET

Issue date: 17-Mar-2018 Revision date: 07-Aug-2019

Version #: 03

1. Chemical 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. ***

Name of chemical (Product

name)

CLT-K407Series

Recommended use of the chemical and restrictions on use

Restrictions on use Do not use with non compatible printer.

HP Japan Inc.

0120-50-3024

5F Ojima2-2-1 Koto-ku Tokyo, Japan 136-8711

Poison Information Centre

Telephone

(+81) 3 5628-1101

HP Inc. health effects line

(Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048

HP Inc. Customer Care

1-800-474-6836 (Toll-free within the US) 1-208-323-2551 (Direct)

Email: hpcustomer.inquiries@hp.com

Recommended use of the chemical and restrictions on use

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

2. Hazards identification

GHS classification

The product is not classified according to GHS.

GHS label elements

Symbols None. Signal words None. **Hazard statement** None.

Precautionary statement

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

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

Substance or mixture Mixture

Gazette notification

Components	CAS Number	ENCS no.	ISHL no.	Concentration (%)
Styrene acrylic resin	Proprietary			<90%
Wax	Proprietary	(2)-10, (8)-414	(2)-10, (8)-414	<10%

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		Gazette notification			
	CAS Number	ENCS no.	ISHL no.	Concentration (%)	
Carbon black	1333-86-4	5-3328; 5-5222	(5)-5222	<7.5%	
Amorphous silica	68909-20-6	(2)-2044	(2)-2044	<5%	
Cyan Pigment	Proprietary			<2%	
Titanium dioxide	13463-67-7	(1)-558, (5)-5225	(1)-558, (5)-5225, 2-(3)-509	<2%	
Chemical formula	UVCB (1333-86-4), UVCB (1333-86-4), C6H19NSi2.O2Si (68909-20-6), C6H19NSi2.O2Si				

(68909-20-6), O2-Ti (13463-67-7), O2-Ti (13463-67-7)

4. First aid measures

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

Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation If on skin

develops or persists.

If in eyes 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.

Rinse mouth with water. Drink one to two glasses of water. DO NOT induce vomiting. Get medical If swallowed

attention immediately.

Difficulty in breathing. Coughing.

Most important

symptoms/effects, acute and

delayed

Protection of first-aid

responders

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

protect themselves.

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Extinguishing media Dry chemical, foam, carbon dioxide, water fog.

Extinguishing media to avoid Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards During fire, gases hazardous to health may be formed. Special fire fighting Move containers from fire area if you can do so without risk.

procedures

General fire hazards

Protection of fire-fighters

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

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 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 SDS for Personal Protective Equipment.

Environmental precautions

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

Methods or 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

Handling

Technical measures (e.g. Local and general

ventilation)

Not available.

Safe handling advice

Not available.

Hygiene measures

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

after handling the product.

Storage

Safe storage conditions

Store in tightly closed original container. Store in a well-ventilated place. Store away from

incompatible materials (see Section 10 of the SDS).

Safe packaging materials

Not available.

8. Exposure controls/personal protection

Occupational exposure limits

Japan. OELs - JSOH (Japan Society of	of Occupational Health: Recommendation	on of Occupational Exposure Limits)

Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	TWA	4 mg/m3	Total dust.
		1 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Total dust.
		1 mg/m3	Respirable dust.
		0.3 mg/m3	
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.
	Franks (Decriselle Franties)		

Exposure guidelines 5 mg/m3 (Respirable Fraction)

3 mg/m3 (Respirable Particulate)

Engineering measures

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.

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.

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

Skin and body protection Protection suit must be worn.

9. Physical and chemical properties

Appearance

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

Black. Color Odorless Odor Not available. pН Not available. Melting point/Freezing point Not available. Boiling point, initial boiling

point, and boiling range

Not available. Flash point

Upper/lower 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. Vapor pressure

Specific gravity Not available.

Solubility(ies)

Solubility (water) Insoluble in water.

Solubility (other) Partially soluble in toluene, chloroform and tetrahydrofuran Partition coefficient (n-octanol/water)

Not available.

Not available.

Auto-ignition temperature Decomposition temperature

> 392 °F (> 200 °C)

Viscosity (Coefficient of

viscosity)

Not available.

Other information

Oxidizing properties No information available.

10. Stability and reactivity

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

Chemical stability Stable under normal storage conditions.

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

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/eye 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.

Japan Society for Occupational Health: Carcinogen

CARBON BLACK, RESPIRABLE DUST (CAS 1333-86-4) 2B Possibly carcinogenic to humans. TITANIUM DIOXIDE (NANOPARTICLE, AS TI) (CAS 2B Possibly carcinogenic to humans.

13463-67-7)

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

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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. Bioaccumulation Mobility in soil Not available. Not available. Hazardous to the ozone layer

13. Disposal considerations

Local disposal regulations

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

Industrial Safety and Health Act

Notifiable substances

CARBON BLACK Table 9 Ordinance No. 130 0 - 5.0 % **SOLID PARAFFIN** Table 9 Ordinance No. 170 0 - 10 % Table 9 Ordinance No. 191 TITANIUM DIOXIDE 0 - 2.5 %

Labeling substances

CARBONBLACK 0 - 5.0 % TITANIUM DIOXIDE 0 - 2.5 %

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

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Deleterious substances

Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

TITANIUM DIOXIDE

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content)

Not regulated

Class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Not regulated.

Ship Safety Law, Dangerous

Goods Marine Transport and

Storage Rule

Air Law, Enforcement Rule Not regulated.

Explosives Control Act

Not regulated.

Act on Prevention of Marine Pollution and Maritime Disaster

PARAFFIN WAX Category: Y TITANIUMOXIDE Category: Z

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

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