

SAFETY DATA SHE

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Version #: 05

1. Chemical and company identification

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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)

HP Japan Inc. 5F Ojima2-2-1 Koto-ku

CLT-K409Series

Tokyo, Japan 136-8711

Poison Information Centre

0120-50-3024

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

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

Email: hpcustomer.inquiries@hp.com

Recommended use of the chemical and restrictions on use

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

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. None. Response Storage None. **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. 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

Substance or mixture Mixture

| | Gazette notification | | | | |
|--------------------------------------|----------------------|----------------------|------------------------------------|-------------------|--|
| Components | CAS Number | ENCS no. | ISHL no. | Concentration (%) | |
| Black Pigment | Proprietary | Proprietary | Proprietary | <7.5 | |
| Amorphous silica | 7631-86-9 | (1)-548 | (1)-548 | <5 | |
| Synonym(s): Amorphous silica | | | | | |
| Paraffin waxes and Hydrocarbon waxes | 8002-74-2 | (2)-10, (8)-414 | (2)-10, (8)-414 | <5 | |
| Titanium dioxide | 13463-67-7 | (1)-558, (5)-5225 | (1)-558, (5)-5225, 2-(3)-509 | <2.5 | |

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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.

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

least 15 minutes or until particles are removed. If irritation persists, consult a physician.

If swallowed

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

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.

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

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

procedures

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

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 measures

Protection of fire-fighters

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 Methods or 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.

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 Occupational Health: Recommendation of Occupational Exposure Limits)

| Components | Туре | Value | Form |
|-----------------------------------|------|-----------|------------------|
| Black Pigment | 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 | |

| Components | es 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 | |

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 protectionNo personal respiratory protective equipment required under normal conditions of use.

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

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

after handling the product.

Personal protective equipment

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

Skin and body protection Protection suit must be worn.

9. Physical and chemical properties

Appearance

Physical state Not available.

Form Solid. Fine powder

Color Black.

Odorless

pH Not available.

Melting point/Freezing point Not available.

Boiling point, initial boiling point, and boiling range

Flash point Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

(/0)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Vapor densityNot available.Specific gravityNot available.

Solubility(ies)

Solubility (water) Insoluble in water.

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

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

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

Black Pigment

Acute Oral

LD50 Rat > 10000 mg/kg

Skin corrosion/irritationBased 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.

ACGIH Carcinogens

Black Pigment (CAS Proprietary)

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

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

Black Pigment (CAS Proprietary)

2B Possibly carcinogenic to humans.

Titanium dioxide (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

Japan Society for Occupational Health: Carcinogen

Black Pigment (CAS Proprietary)

2B Possibly carcinogenic to humans.

Titanium dioxide (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

Reproductive toxicityThis 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.

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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

Bioaccumulation

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.

Mobility in soil Hazardous to the ozone layer Not available.

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 - 7.5 % SOLID PARAFFIN Table 9 Ordinance No. 170 0 - 5.0 % TITANIUM DIOXIDE Table 9 Ordinance No. 191 0 - 2.5 %

Labeling substances

 CARBONBLACK
 0 - 7.5 %

 Silica
 0 - 5.0 %

 TITANIUM DIOXIDE
 0 - 2.5 %

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

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

Class I specified chemical substances

Not regulated.

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Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

SILICON DIOXIDE 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.

Not dangerous goods under Fire Service Law Fire Service Act

Ship Safety Law, Dangerous

Goods Marine Transport and

Storage Rule

Not regulated. Air Law, Enforcement Rule

Explosives Control Act

Not regulated.

Act on Prevention of Marine Pollution and Maritime Disaster

PARAFFIN WAX Category: Y **TITANIUMOXIDE** Category: Z

All chemical substances in this HP product have been notified or are exempt from notification Regulatory information

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.

Product name: CLT-K409Series Company name: HP Japan Inc.

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