



SAFETY DATA SHEET

1. 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. ***

Name of the chemical CLT-P4072B

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.

Recommended restrictions Do not use with non compatible printer.

Company identification HP Taiwan Information Technology Ltd.
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2. Hazards identification

GHS Hazard classification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

GHS Label elements

Symbols None.

Signal word None.

Hazard statement None.

Precautionary statement

Prevention None.

Response None.

Storage None.

Disposal None.

GHS Other hazards 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

| Chemical properties | CAS Number | Concentration (%) |
|-----------------------|-------------|-------------------|
| Styrene acrylic resin | Proprietary | <90% |
| Wax | Proprietary | <10% |

| | CAS Number | Concentration (%) |
|------------------|-------------|-------------------|
| Carbon black | 1333-86-4 | <7.5% |
| Amorphous silica | 68909-20-6 | <5% |
| Titanium dioxide | 13463-67-7 | <2% |
| Cyan Pigment | Proprietary | <2% |

4. First aid measures

First aid measures for different exposure routes

| | |
|---------------------|--|
| Inhalation | Move person to fresh air immediately. If irritation persists, consult a physician. |
| Skin contact | Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists. |
| 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. |
| Ingestion | Rinse mouth with water. Drink one to two glasses of water. DO NOT induce vomiting. Get medical attention immediately. |

Most important symptoms and effects Difficulty in breathing. Coughing.

Personal protection for 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 fighting | During fire, gases hazardous to health may be formed. |
| Special fire fighting procedures | Move containers from fire area if you can do so without risk. |
| Protection of fire-fighters | 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 | 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. |
| Spill cleanup methods | 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 | Minimize dust generation and accumulation. Use local exhaust ventilation. Avoid prolonged exposure. Practice good housekeeping. |
| Storage | 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/personal protection

Exposure limits

Taiwan. OELs. (Standards on Workplace Atmosphere of Dangerous and Hazardous Materials)

| Components | Type | Value | Form |
|-----------------------------------|------|-----------|-------|
| Carbon black (CAS 1333-86-4) | TWA | 3.5 mg/m3 | |
| Titanium dioxide (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| Wax | TWA | 2 mg/m3 | Fume. |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|------------------------------|------|---------|---------------------|
| Carbon black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|--|---|----------|-------|
| Titanium dioxide (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| Wax | TWA | 2 mg/m3 | Fume. |
| Biological limit values | No biological exposure limits noted for the ingredient(s). | | |
| Exposure guidelines | 5 mg/m3 (Respirable Fraction) | | |
| | 3 mg/m3 (Respirable Particulate) | | |
| 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, such as personal protective equipment | | | |
| Eye/face protection | Wear safety glasses with side shields (or goggles). | | |
| Skin protection | | | |
| Hand protection | Rubber gloves are recommended. Wash hands after handling. | | |
| Other | Protection suit must be worn. | | |
| Respiratory protection | No personal respiratory protective equipment required under normal conditions of use. | | |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. | | |
| General hygiene considerations | 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****Physical state** Not available.**Form** Solid. Fine powder**Color** Black.**Odor** Odorless**Odor threshold** Not available.**Melting point/freezing point** Not available.**pH** Not available.**Boiling point, initial boiling point, and boiling range** Not available.**Flammability (solid, gas)** Not available.**Flash point** Not available.**Decomposition temperature** > 392 °F (> 200 °C)**Auto-ignition temperature** Not available.**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.**Vapor pressure** Not available.**Vapor density** 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.**Evaporation rate** Not available.

| | |
|-----------------------------|---------------------------|
| Other data | |
| Oxidizing properties | No information available. |

10. Stability and reactivity

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|---|--|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| 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 | This product may react with strong oxidizing agents. |
| Hazardous decomposition products | Carbon monoxide and carbon dioxide. |

11. Toxicological information

Information on likely 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 Not available.

Information on toxicological effects

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) | | |
| <u>Acute</u> | | |
| <u>Oral</u> | | |
| 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. |

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. |
| Chronic effects | Not available. |
| 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 reevaluated 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. |
| Bioaccumulation | Not available. |
| Mobility in soil | Not available. |
| Other hazardous effects | Not available. |

13. Disposal considerations

| | |
|-----------------------------------|--|
| Disposal instructions | 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 . |
| Residual waste | Not available. |
| Contaminated packaging | Not available. |
| Local disposal regulations | 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

Applicable regulations

Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Not listed.

Standards on Workplace Atmosphere of Dangerous and Hazardous Materials

| | |
|-----------------------------------|---------|
| Carbon black (CAS 1333-86-4) | Listed. |
| Titanium dioxide (CAS 13463-67-7) | Listed. |
| Wax (CAS Proprietary) | Listed. |

GHS Classification List: GHS implementation phase 1, 2 and 3 (CLA No. 0980145063, 0990146707, and 1020146801)

Carbon black (CAS 1333-86-4)

Wax (CAS Proprietary)

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.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

References

Not available.

Issued by

Company name

HP Inc.

Prepared by

HP Inc.

Disclaimer

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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.

Issue date

21-Aug-2018

Revision date

07-Aug-2019

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 |