



MATERIAL SAFETY DATA SHEET

1. Chemical 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. ***

A. Product name CLT-R806K

Other means of identification Not available.

B. Recommended use and Limitations on use
Recommended use HP Developer

C. Supplier information
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 Youngdeungpo-gu
 Seoul 150-742, Korea

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(Toll-free within the US) 1-800-457-4209
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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. 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.

Supplemental information None.

3. Composition/information on ingredients

| Chemical identity | Common and alternative names | CAS number | ID number | Content in percent (%) |
|--|------------------------------|-------------|-------------|------------------------|
| Ceramic Materials And Wares, Chemicals | | Proprietary | KE-05377 | <95% |
| Polyester resin | Polyester resin | Proprietary | | <10% |
| Amorphous silica | | Proprietary | KE-34696 | <1% |
| Black Pigment | | Proprietary | Proprietary | <1% |

| Chemical identity | Common and alternative names | CAS number | ID number | Content in percent (%) |
|-------------------|------------------------------|------------|-----------|------------------------|
| Titanium dioxide | | 13463-67-7 | KE-33900 | <1% |

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 | Not available. |
| Most important symptoms/effects, acute and delayed | Difficulty in breathing. Coughing. |

5. Fire-fighting measures

| | |
|---|---|
| A. Suitable (and unsuitable) extinguishing media | |
| Suitable extinguishing media | ABC powder, foam and water. Alcohol resistant foam. |
| Unsuitable extinguishing media | Do not use water jet. |
| B. Specific hazards arising from the chemical (example: hazardous combustion products) | Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air. |
| C. Specific methods of fire-fighting | |
| Special protective equipment for firefighters | Wear self-contained breathing apparatus and protective clothing. Wear full set of protective equipment including chemical goggles and gloves. |
| Special fire fighting procedures | If fire occurs in the printer, treat as an electrical fire. |
| Specific methods | None established. |

6. Accidental release measures

| | |
|---|---|
| A. Personal precautions, protective equipment and emergency measures | Avoid inhalation of dust. Wash thoroughly after dealing with a spillage. See Section 8 of the MSDS for Personal Protective Equipment. Ensure adequate ventilation. Remove victim immediately from source of exposure. Emergency personnel should wear self-contained breathing apparatus. |
| B. Environmental precautions | Avoid spreading dust or contaminated materials. Avoid discharge into drains, water courses or onto the ground. |
| C. Methods and materials for containment and cleaning up | Dispose of in compliance with federal, state, and local regulations. Slowly vacuum or sweep the material into a bag or other sealed container. Clean remainder with a damp cloth or vacuum cleaner. If a vacuum is used, the motor must be rated as dust explosion-proof. Fine powder can form explosive dust-air mixtures. |

7. Handling and storage

| | |
|---|--|
| A. Precautions for safe handling | Use local exhaust ventilation. Take precautionary measures against static discharges. Use only in well-ventilated areas. Ground and bond containers when transferring material. Avoid inhalation of dust and contact with skin and eyes. Keep away from excessive heat, sparks, and open flames. |
| B. Conditions for safe storage (including any incompatibilities) | Keep out of the reach of children. Wash hands after handling. When using, do not eat, drink or smoke. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Keep tightly closed and dry. Store at room temperature. |

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

| Components | Type | Value |
|-----------------------------------|------|-----------------------|
| Black Pigment | TWA | 3.5 mg/m ³ |
| Titanium dioxide (CAS 13463-67-7) | TWA | 10 mg/m ³ |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|-----------------------------------|------|----------|---------------------|
| Black Pigment | TWA | 3 mg/m3 | Inhalable fraction. |
| Titanium dioxide (CAS 13463-67-7) | TWA | 10 mg/m3 | |

| | |
|--|--|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Exposure guidelines | 5 mg/m3 (Respirable Fraction) 3 mg/m3 (Respirable Particulate) |
| B. Appropriate engineering controls | Use in a well ventilated area. |
| 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. |
| • Body protection | Protection suit must be worn. |
| 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

| | |
|---|---|
| A. Appearance | Fine powder |
| Physical state | Solid. |
| Form | solid |
| Color | Black. |
| B. Odor | Odorless |
| C. Odor threshold | No information available |
| D. pH | Not applicable |
| E. Melting point/freezing point | |
| Melting point | No information available |
| Freezing point | No information available |
| F. Boiling point, initial boiling point, and boiling range | Not applicable |
| G. Flash point | Not applicable |
| H. Evaporation rate | Not available. |
| I. Flammability (solid, gas) | Not available. |
| J. Upper/lower limit on flammability or explosive limits | |
| Flammability limit - lower (%) | Not flammable |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| K. Vapor pressure | Not applicable |
| L. Solubility | |
| Solubility (water) | Insoluble in water. Partially soluble in toluene, chloroform and tetrahydrofurane |
| M. Vapor density | Not applicable |
| N. Specific gravity | 1.2 g/ml |
| O. n-octanol/water partition coefficient | Not available. |
| P. Auto-ignition temperature | No data available |
| Q. Decomposition temperature | Not available. |
| R. Viscosity | Not applicable |
| S. Molecular weight | Not available. |
| Other data | |
| Oxidizing properties | No information available. |

10. Stability and reactivity

| | |
|-------------------|----------------|
| Reactivity | Not available. |
|-------------------|----------------|

A. Stability and hazardous reaction potential

Stability Stable under normal storage conditions.

Hazardous reaction potential Not available.

B. Conditions to avoid (e.g. static discharge, shock or vibration, etc) Risk of dust explosion. Shocks and physical damage.

C. Incompatible materials No information available.

D. Hazardous decomposition products Not known.

11. Toxicological information

A. Information on likely routes of exposure

- **Respiratory organs** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
- **Skin** Contact with skin may result in mild irritation.
- **Eyes** Contact with eyes may result in mild irritation.
- **Mouth** Ingestion is not a likely route of exposure.

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 | Species | Test Results |
|--|---------|-------------------------------------|
| Black Pigment | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 10000 mg/kg |
| Ceramic Materials And Wares, Chemicals | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 2500 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 2.3 mg/l, 4 Hours > 0.888 mg/l |
| Oral | | |
| LD50 | Rat | > 2000 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** Based on available data, the classification criteria are not met.

• **Skin sensitization** Based on available data, the classification criteria are not met.

• **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.

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

• **Mutagenic properties /Mutagenicity** Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
Based on available data, the classification criteria are not met.

• **Reproductive toxicity** Based on available data, the classification criteria are not met.

• **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 Not available.

| Components | Species | Test Results |
|--|---------|--|
| Ceramic Materials And Wares, Chemicals | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | ErC50 | Algae 184.6 mg/l, 72 h |
| Crustacea | EC50 | Invertebrates (Invertebrates) 1.9 mg/l, 48 h |
| Fish | LC50 | Fish 457 mg/l, 96 h |
| <i>Chronic</i> | | |
| Fish | EC50 | Fish 0.151 mg/l, 7 d |
| | LC50 | Fish 1.94 mg/l, 16 d |

B. Persistence/degradability Not available.

C. Bioaccumulative potential Not available.

D. Mobility in soil Not available.

E. Other adverse effects 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

Not regulated.

Harmful Substances Requiring Special Medical Examination

Not regulated.

Workplace Environmental Monitoring Harmful Materials

Not regulated.

Occupational Exposure Limit

Titanium dioxide (CAS 13463-67-7)

B. Restrictions under the Chemicals Control Law (Previously Toxic Chemicals Control Law)

Accidental Release Prevention Substances

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.

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.

Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides (Rules on PIC, MoE No. 2014-252, Dec. 31, 2014; Standards for Pesticides, RDA No. 2014-26), as amended

Not listed.

Specific Air Pollutants

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

07-Nov-2019

C. Number of revisions and date of most recent revision

25-Oct-2020 (03 revision)

D. Other

Not available.

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.

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 |