



# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**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. \*\*\*

### 1.1. Product identifier

**Trade name or designation of the mixture** MLT-D117Series  
**Registration number** -  
**Synonyms** None.  
**Issue date** 21-Mar-2018  
**Version number** 04  
**Revision date** 21-Oct-2020  
**Supersedes date** 06-Nov-2019

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** This product is a toner mixture that is used in printing systems.  
**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

HP Finland Oy  
Piispankalliontie 17, Pt. Ground Floor  
Espoo  
Finland FI-02200  
**Telephone** +358-102-77-4000

### 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

**1.4 Emergency telephone number** +358 (0)9 471977

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification as hazardous according to Regulation (EC) 1272/2008.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Hazard pictograms** None.  
**Signal word** None.  
**Hazard statements** The mixture does not meet the criteria for classification.

#### Precautionary statements

**Prevention** Not available.  
**Response** Not available.  
**Storage** Not available.  
**Disposal** Not available.

**Supplemental label information** None.

### 2.3. 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. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC) 1907/2006.

---

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

---

## SECTION 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.1. Description of first aid measures

**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.

**4.2. Most important symptoms and effects, both acute and delayed** Difficulty in breathing. Coughing.

**4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

---

## SECTION 5: Firefighting measures

**General fire hazards** No unusual fire or explosion hazards noted.

### 5.1. Extinguishing media

**Suitable extinguishing media** Dry chemical, foam, carbon dioxide, water fog.  
**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Firefighters should wear full protective clothing including self contained breathing apparatus.  
**Special fire fighting procedures** Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

---

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** 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.

**6.2. Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material 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.

**6.4. Reference to other sections** See Section 8 of the SDS for Personal Protective Equipment. See also section 13 Disposal considerations.

---

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Minimize dust generation and accumulation. Use local exhaust ventilation. Avoid prolonged exposure. Practice good housekeeping.

|  |   |
|--|---|
| <b>7.2. Conditions for safe storage, including any incompatibilities</b> | Store in tightly closed original container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). |
| <b>7.3. Specific end use(s)</b>  | Not available.  |

---

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|   |  |
|---|--|
| <b>Occupational exposure limits</b>               | No exposure limits noted for ingredient(s).                |
| <b>Biological limit values</b>                    | No biological exposure limits noted for the ingredient(s). |
| <b>Recommended monitoring procedures</b>          | Not available.   |
| <b>Derived no effect levels (DNELs)</b>           | Not available.   |
| <b>Predicted no effect concentrations (PNECs)</b> | Not available.   |

### 8.2. Exposure controls

|   |   |
|---|---|
| <b>Appropriate engineering controls</b> | 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

|  |  |
|--|--|
| <b>General information</b>             | No personal respiratory protective equipment required under normal conditions of use.                                      |
| <b>Eye/face protection</b>             | Wear safety glasses with side shields (or goggles).  |
| <b>Skin protection</b>                 |  |
| - Hand protection                      | Rubber gloves are recommended. Wash hands after handling.  |
| - Other                                | Protection suit must be worn.  |
| <b>Respiratory protection</b>          | No personal respiratory protective equipment required under normal conditions of use.                                      |
| <b>Thermal hazards</b>                 | Wear appropriate thermal protective clothing, when necessary.  |
| <b>Hygiene measures</b>                | Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. |
| <b>Environmental exposure controls</b> | Do not allow the spilled product to enter public drainage system or open water courses.                                    |

---

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

|   |                    |
|---|--------------------|
| <b>Physical state</b>                               | Not available.     |
| <b>Form</b>   | Solid. Fine powder |
| <b>Color</b>  | Black.             |
| <b>Odor</b>   | Odorless           |
| <b>Odor threshold</b>                               | Not available.     |
| <b>pH</b>   | Not available.     |
| <b>Melting point/freezing point</b>                 | Not available.     |
| <b>Initial boiling point and boiling range</b>      | Not available.     |
| <b>Flash point</b>                                  | Not available.     |
| <b>Evaporation rate</b>                             | Not available.     |
| <b>Flammability (solid, gas)</b>                    | Not available.     |
| <b>Upper/lower flammability or explosive limits</b> |                    |
| <b>Flammability limit - lower (%)</b>               | Not available.     |
| <b>Flammability limit - upper (%)</b>               | Not available.     |
| <b>Vapor pressure</b>                               | Not available.     |
| <b>Vapor density</b>                                | Not available.     |

|  |  |
|--|--|
| <b>Solubility(ies)</b>                         |  |
| <b>Solubility (water)</b>                      | Insoluble in water.  |
| <b>Solubility (other)</b>                      | Partially soluble in toluene, chloroform and tetrahydrofuran |
| <b>Partition coefficient (n-octanol/water)</b> | Not available.   |
| <b>Auto-ignition temperature</b>               | Not available.   |
| <b>Decomposition temperature</b>               | > 392 °F (> 200 °C)  |
| <b>Viscosity</b>                               | Not available.   |
| <b>Explosive properties</b>                    | Not available.   |
| <b>Oxidizing properties</b>                    | No information available.                                    |
| <b>9.2. Other information</b>                  | Not available.   |

---

## SECTION 10: Stability and reactivity

|   |  |
|---|--|
| <b>10.1. Reactivity</b>                         | Not available.   |
| <b>10.2. Chemical stability</b>                 | Stable under normal storage conditions.  |
| <b>10.3. Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                      |
| <b>10.4. Conditions to avoid</b>                | Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. |
| <b>10.5. Incompatible materials</b>             | This product may react with strong oxidizing agents.   |
| <b>10.6. Hazardous decomposition products</b>   | Carbon monoxide and carbon dioxide.  |

---

## SECTION 11: Toxicological information

|   |  |
|---|--|
| <b>General information</b>                                | Not available.   |
| <b>Information on likely routes of exposure</b>           |  |
| <b>Inhalation</b>   | Dust may irritate respiratory system. Prolonged inhalation may be harmful.   |
| <b>Skin contact</b>                                       | Dust or powder may irritate the skin.  |
| <b>Eye contact</b>  | Dust may irritate the eyes.  |
| <b>Ingestion</b>  | Expected to be a low ingestion hazard.   |
| <b>Symptoms</b>   | Not available.   |
| <b>11.1. Information on toxicological effects</b>         |  |
| <b>Acute toxicity</b>                                     | Based on available data, the classification criteria are not met. LD50/oral/rat >5000 mg/kg.   |
| <b>Skin corrosion/irritation</b>                          | Based on available data, the classification criteria are not met. Not a known irritant. (OECD 404).  |
| <b>Serious eye damage/eye irritation</b>                  | Based on available data, the classification criteria are not met. Not a known irritant. (OECD 405).  |
| <b>Respiratory sensitization</b>                          | Not a respiratory sensitizer.  |
| <b>Skin sensitization</b>                                 | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>                             | Based on available data, the classification criteria are not met. Negative Ames Test (Test strains: Salmonella typhimurium).   |
| <b>Carcinogenicity</b>                                    | Based on available data, the classification criteria are not met.<br><br>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. |
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects.   |
| <b>Specific target organ toxicity - single exposure</b>   | Based on available data, the classification criteria are not met.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Based on available data, the classification criteria are not met.  |
| <b>Aspiration hazard</b>                                  | Based on available data, the classification criteria are not met.  |
| <b>Mixture versus substance information</b>               | 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.

---

**SECTION 12: Ecological information**

|  |  |
|--|--|
| <b>12.1. Toxicity</b>                                  | 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. |
| <b>12.2. Persistence and degradability</b>             | No data is available on the degradability of any ingredients in the mixture.   |
| <b>12.3. Bioaccumulative potential</b>                 | Not available.   |
| <b>Partition coefficient n-octanol/water (log Kow)</b> | Not available.   |
| <b>Bioconcentration factor (BCF)</b>                   | Not available.   |
| <b>12.4. Mobility in soil</b>                          | Not available.   |
| <b>12.5. Results of PBT and vPvB assessment</b>        | Not a PBT or vPvB substance or mixture.  |
| <b>12.6. Other adverse effects</b>                     | Not available.   |

---

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

|                                     |  |
|-------------------------------------|--|
| <b>Residual waste</b>               | Not available.   |
| <b>Contaminated packaging</b>       | Not available.   |
| <b>EU waste code</b>                | Not available.   |
| <b>Disposal methods/information</b> | 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.<br><br>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 <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a> . |

---

**SECTION 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.

---

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**  
Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**  
Not listed.

#### **Authorizations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**  
Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended**  
Not listed.

#### **Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**  
Not listed.

#### **Other 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.

#### **Other information**

This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830. Classification according to Regulation (EC) No 1272/2008 as amended.

#### **National regulations**

Not available.

#### **15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

---

### **SECTION 16: Other information**

#### **References**

Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency (REACH).

Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, and amendments (CLP).

#### **Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### **Full text of any H-statements not written out in full under Sections 2 to 15**

None.

#### **Revision information**

SECTION 2: Hazards identification: Classification according to Regulation (EC) No 1272/2008

#### **Training information**

Follow training instructions when handling this material.

## 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.

## Explanation of abbreviations

|               |   |
|---------------|---|
| <b>ACGIH</b>  | American Conference of Governmental Industrial Hygienists           |
| <b>CAS</b>    | Chemical Abstracts Service  |
| <b>CERCLA</b> | Comprehensive Environmental Response Compensation and Liability Act |
| <b>CFR</b>    | Code of Federal Regulations   |
| <b>COC</b>    | Cleveland Open Cup  |
| <b>DOT</b>    | Department of Transportation  |
| <b>EPCRA</b>  | Emergency Planning and Community Right-to-Know Act (aka SARA)       |
| <b>IARC</b>   | International Agency for Research on Cancer                         |
| <b>NIOSH</b>  | National Institute for Occupational Safety and Health               |
| <b>NTP</b>    | National Toxicology Program   |
| <b>OSHA</b>   | Occupational Safety and Health Administration                       |
| <b>PEL</b>    | Permissible Exposure Limit  |
| <b>RCRA</b>   | Resource Conservation and Recovery Act                              |
| <b>REC</b>    | Recommended   |
| <b>REL</b>    | Recommended Exposure Limit  |
| <b>SARA</b>   | Superfund Amendments and Reauthorization Act of 1986                |
| <b>STEL</b>   | Short-Term Exposure Limit   |
| <b>TCLP</b>   | Toxicity Characteristics Leaching Procedure                         |
| <b>TLV</b>    | Threshold Limit Value   |
| <b>TSCA</b>   | Toxic Substances Control Act  |
| <b>VOC</b>    | Volatile Organic Compounds  |