SAFETY DATA SHEET

1. Identification

Product identifier ML-3560DSeries

Other means of identification None.

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

Recommended restrictions Do not use with non compatible printer.

Manufacturer/Importer/Supplier/Distributor information

HP Inc.

1501 Page Mill Road Palo Alto, CA 94304-1112

United States

Telephone 650-857-5020

HP Inc. health effects line

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

HP Inc. Customer Care

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

Email: hpcustomer.inquiries@hp.com

2. Hazard(s) identification

Physical hazards Not classified. **Health hazards** Not classified. Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements

Hazard symbol None. None. Signal word

Hazard statement Not available.

Precautionary statement

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

Hazard(s) not otherwise

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 classified (HNOC)

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 This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|-----------------|--------------------------|--------------|------|
| Polyester resin | Polyester resin | Trade Secret | <90 |
| Carbon black | | 1333-86-4 | <5 |
| Ethylene wax | | Trade Secret | <2.5 |

| Chemical name | Common name and synonyms | CAS number | % |
|------------------|--------------------------|--------------|------|
| Silica | Amorphous silica | Trade Secret | <2.5 |
| Titanium dioxide | | 13463-67-7 | <1 |

4. 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.

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

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.

Difficulty in breathing. Coughing.

Most important

symptoms/effects, acute and delaved

Indication of immediate

medical attention and special treatment needed

Treat symptomatically.

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

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Dry chemical, foam, carbon dioxide, water fog.

Special protective equipment and precautions for firefighters

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

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards

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

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

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.

Methods and 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.

Environmental precautions

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

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Use local exhaust ventilation. Avoid prolonged exposure. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities 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

Occupational exposure limits This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

| US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) |
|---|
|---|

| Components | Туре | Value | Form | |
|-----------------------------------|------|-----------|-------------|--|
| Carbon black (CAS 1333-86-4) | PEL | 3.5 mg/m3 | | |
| Titanium dioxide (CAS 13463-67-7) | PEL | 15 mg/m3 | Total dust. | |

| 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 | |
| US. NIOSH: Pocket Guide | e to Chemical Hazards | | |
| Components | Туре | Value | |
| 0.1 | TWA | 0.1 mg/m3 | |
| Carbon black (CAS 1333-86-4) | TWA | o. r mg/ms | |
| • | TWA | 6 mg/m3 | |
| 1333-86-4) | | 6 mg/m3 | |

ACGIH (TWA/TLV): 15 mg/m3 (Inhalable 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. Use a

NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding

the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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

after handling the product.

9. Physical and chemical properties

Appearance

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

Color Black. Odorless Odor **Odor threshold** Not available. Not applicable Ha

Melting point/freezing point No information available

Initial boiling point and boiling

range

Not applicable

Flash point Not applicable Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not flammable

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available.

Not available. Explosive limit - upper (%) Not applicable Vapor pressure Vapor density Not applicable

Solubility(ies)

Solubility (water) Insoluble in water.

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

Partition coefficient Not available.

(n-octanol/water)

No data available **Auto-ignition temperature Decomposition temperature** > 392 °F (> 200 °C) Not applicable Viscosity Other information Not available.

No information available. **Oxidizing properties**

Percent volatile 0 % estimated

10. Stability and reactivity

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

Stable under normal storage conditions. **Chemical stability**

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 Dust may irritate the eyes.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Not available.

Information on toxicological effects

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

LD50/oral/rat >5000 mg/kg.

Test Results Components Species

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 Based on available data, the classification criteria are not met.

Not a known irritant. (OECD 405). irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization. Based on available data, the classification criteria are not met. Germ cell mutagenicity

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Silica (CAS Trade Secret) 3 Not classifiable as to carcinogenicity to humans.

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Specific target organ toxicity -

Reproductive toxicity

Further information

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.

Based on available data, the classification criteria are not met. **Aspiration hazard**

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.

This product is not expected to cause reproductive or developmental effects.

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.

Bioaccumulative potential Not available. Mobility in soil Not available. Not available. Other adverse effects

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.

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

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders

under TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CARBON BLACK (AIRBORNE, UNBOUND PARTICLES Listed: February 21, 2003

OF RESPIRABLE SIZE [<= 10 MICROMETERS]) (CAS

1333-86-4)

TITANIUM DIOXIDE (AIRBORNE, UNBOUND Listed: September 2, 2011

PARTICLES OF RESPIRABLE SIZE) (CAS 13463-67-7)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Carbon black (CAS 1333-86-4) Titanium dioxide (CAS 13463-67-7)

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, including date of preparation or last revision

Issue date 01-Aug-2018

Version # 01

Material name: ML-3560DSeries sps us

Other information

This SDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

Disclaimer

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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

Material name: ML-3560DSeries sps us