CHEMICAL PRODUCT SAFETY DATA Prepared in accordance with GB/T 16483 and GB/T 17

Product name: ML-D3470Series

Issue date: 01-Jun-2018 Revision date: 21-Oct-2020

Version #: 05

SDS No: -

SECTION 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. ***

Chinese name of chemical **English name of chemical**

ML-D3470Series ML-D3470Series

Company identification

China HP Co., Ltd. 5F, Block A, Bldg 1, #8

Guangshun Avenue South, Chaoyang district

Beijing, China Zip code: 100102

Telephone

(+86) 10 5870 4833

Chemical Emergency

400-626-7911

Advisory Service Hotline

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

Recommended use and Limitations on use

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

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SECTION 2 Hazards identification

GHS hazard categories

Not classified.

Label elements

None. **Pictograms** Signal word None. **Hazard statement** None.

Precautionary statement

Prevention None. None. Response Storage None. Disposal None.

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.

SDS CHINA 14637

Supplemental information None.

SECTION 3 Composition/information on ingredients

Mixture Substance/mixture

Chemical name	Concentration (%)	CAS Number
聚 酯树 脂	<90%	Trade Secret
Polyester resin		
黑色 颜料	<5%	Proprietary
Black Pigment		
 硅石	<5%	Trade Secret
Silica		
	<5%	Trade Secret
Wax		

SECTION 4 First aid measures

Inhalation 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 Skin contact

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

health 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.

SECTION 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

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.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during For non-emergency

personnel

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.

Environmental precautions

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

Clean-up methods and materials and containment measures

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.

Prevention of secondary

hazards

Not available.

SECTION 7 Handling and storage

Minimize dust generation and accumulation. Use local exhaust ventilation. Avoid prolonged Handling

exposure. Practice good housekeeping

Store in tightly closed original container. Store in a well-ventilated place. Store away from Storage

incompatible materials (see Section 10 of the SDS).

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SECTION 8 Exposure controls/personal protection

Exposure limits

China OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ

2.1-2007)

ComponentsTypeValueFormBlack PigmentPC-TWA4 mg/m3Total dust.

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines 5 mg/m3 (Respirable Fraction) 3 mg/m3 (Respirable Particulate)

Monitoring methods Not available.

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.

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

Skin and 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.

SECTION 9 Physical and chemical properties

Appearance

Physical state Not available.

Form Solid. Fine powder

Color Black.

Odor Odorless

pH Not available.

Melting point/freezing point Not available.

Boiling point, initial boiling point, and boiling range

Flash point

Flammability limit - lower (%)

Flammability limit - upper (%)

Explosive limit - lower (%)

Explosive limit - upper (%)

Vapor pressure

Vapor density

Not available.

Not available.

Not available.

Not available.

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.

Auto-ignition temperature Not available.

Decomposition temperature > 392 °F (> 200 °C)

Other data

Oxidizing properties No information available.

SECTION 10 Stability and reactivity

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

Hazardous decomposition

products

This product may react with strong oxidizing agents.

Carbon monoxide and carbon dioxide.

SECTION 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

Routes of exposure Not available.

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 sensitizer 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.

China OELs for hazardous agents in the workplace: Carcinogen Category

Black Pigment (CAS Proprietary) Possible human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Black Pigment (CAS Proprietary) 2B Possibly carcinogenic to humans.

Toxic to reproductionThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity following single exposure

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

Specific target organ toxicity following 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.

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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.

SECTION 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.

BioaccumulationNot available.Mobility in soilNot available.Other hazardous effectsNot available.

SECTION 13 Disposal considerations

Residual waste Not available.

Contaminated packaging Not available.

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.

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

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Not regulated.

Regulations on the Control over Safety of Dangerous Chemicals

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.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

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Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

SECTION 16 Other information

References

Not available

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)

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