



SAFETY DATA SHEET

1. Chemical product and company identification

Product name HP Z8W52A Black Developer
Company identification PT. Hewlett-Packard Indonesia
9th Floor, Jl.Casablanca Kav.88 Prudential Centre
Jakarta, Indonesia 12870
Telephone +62-21 5799-1088

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

Recommended use This product is a black developer preparation that is used in HP LaserJet Managed MFP E82540, HP LaserJet Managed MFP E82550, HP LaserJet Managed MFP E82560 series multifunction products.

2. Hazards identification

GHS classification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements

Pictogram None.
Signal word None.
Hazard statement None.

Precautionary statement

Prevention None.
Response None.
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.

Supplemental information None.

3. Composition / information on ingredients

Substance or mixture Mixture

Chemical property

| Chemical name | CAS Number | Concentration (%) |
|-----------------|--------------|-------------------|
| Ferrite | Trade Secret | <95 |
| Polyester resin | Trade Secret | <10 |
| Polyester resin | | |
| Carbon black | 1333-86-4 | <2 |
| Paraffin wax | Trade Secret | <2 |

| | CAS Number | Concentration (%) |
|------------------|--------------|-------------------|
| Silica | Trade Secret | <1 |
| Amorphous silica | | |

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. If symptoms occur, consult a physician. |
| Most important symptoms and effects | Difficulty in breathing. Coughing. |
| Personal protection for first-aid responders | Not available. |
| Notes to physician | Not available. |

5. Fire-fighting measures

| | |
|---|---|
| Extinguishing media | Dry chemical, CO2, water spray or regular foam. |
| Extinguishing media to avoid | None known. |
| Specific hazards | Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air. |
| Special fire fighting procedures | If fire occurs in the printer, treat as an electrical fire. |
| Protection of fire-fighters | Wear self-contained breathing apparatus and protective clothing. Wear full set of protective equipment including chemical goggles and gloves. |
| Specific methods | None established. |

6. Accidental release measures

| | |
|----------------------------------|---|
| Personal precautions | Avoid inhalation of dust. Wash thoroughly after dealing with a spillage. See Section 8 of the SDS for Personal Protective Equipment. Ensure adequate ventilation. |
| Environmental precautions | Avoid spreading dust or contaminated materials. Avoid discharge into drains, water courses or onto the ground. |
| Spill clean-up methods | 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. Dispose of in compliance with federal, state, and local regulations. |

7. Handling and storage

| | |
|------------------------------------|---|
| Handling | |
| Precautions | Not available. |
| Safe handling advice | Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after handling. Keep away from excessive heat, sparks, and open flames. |
| Storage | |
| Technical measures | Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers. |
| Suitable storage conditions | Not available. |
| Incompatible materials | Not available. |

8. Exposure controls/personal protection

Exposure limits

Indonesia. OELs (Minister of Manpower and Transmigration Regulation No. Per.13/MEN/X/2011 concerning Threshold Limit Values, Annex II)

| Components | Type | Value | Form |
|------------------------------|------|-----------|-------|
| Carbon black (CAS 1333-86-4) | TWA | 3.5 mg/m3 | |
| Paraffin Wax | TWA | 2 mg/m3 | Fume. |

Occupational exposure limits

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|------------------------------|------|---------|---------------------|
| Carbon black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |
| Paraffin Wax | TWA | 2 mg/m3 | Fume. |

Engineering measures Use in a well ventilated area.

Personal protective equipment

Respiratory protection No 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.

9. Physical and chemical properties

| | |
|--|---------------------------|
| Appearance | Fine powder |
| Physical state | Solid. |
| Form | solid |
| Color | Black. |
| Odor | Odorless |
| Odor threshold | No information available |
| pH | Not applicable |
| Melting point/freezing point | No information available |
| Boiling point, initial boiling point, and boiling range | Not applicable |
| Flash point | Not applicable |
| Auto-ignition temperature | No data available |
| 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. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not applicable |
| Vapor density | Not applicable |
| Evaporation rate | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Decomposition temperature | > 392 °F (> 200 °C) |
| Viscosity | Not applicable |
| Other data | |
| Oxidizing properties | No information available. |
| Specific gravity | 4.4 g/ml (20C, 68F) |

10. Stability and reactivity

| | |
|---|--|
| Reactivity | Not available. |
| Stability | Stable under normal storage conditions. |
| Conditions to avoid | Heat, sparks, flames. Sunlight. Avoid dust close to ignition sources. |
| Incompatible materials | This product may react with strong oxidizing agents. This product may react with strong acids. |
| Hazardous decomposition products | Carbon monoxide and carbon dioxide. Hydrogen. |

Possibility of hazardous reactions Stable

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 |
|---|--|---------------|
| Carbon black (CAS 1333-86-4) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 10000 mg/kg |
| Routes of exposure | Not available. | |
| Symptoms | 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 | Based on available data, the classification criteria are not met. | |
| Skin sensitization | Based on available data, the classification criteria are not met. | |
| Germ cell mutagenicity | Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) Based on available data, the classification criteria are not met. | |
| 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. | |
| ACGIH Carcinogens | | |
| Carbon black (CAS 1333-86-4) | A3 Confirmed animal carcinogen with unknown relevance to humans. | |
| 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. | |
| Toxic to reproduction | 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. | |
| Chronic effects | Not available. | |
| Interactive 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. | |

12. Ecological information

| | |
|--------------------------------------|--|
| Ecotoxicity | Not available. |
| Persistence and degradability | Not available. |
| Bioaccumulation | Not available. |
| Mobility in soil | Not available. |
| Other hazardous effects | This product has not been tested for ecological effects. |

13. Disposal considerations

Disposal methods/information 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>.

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

CWC (Law of RI No. 9 of 2008 re: Prohibition on the Use of Chemicals as Chemical Weapon, March 10, 2008)

Not regulated.

Dangerous Substances that Must be Registered (Regulation of the Minister of Health of the Republic of Indonesia, No. 472/Menkes/Per/V/1996)

Not regulated.

Import and Distribution Control of Hazardous Materials (Minister of Trade Regulation No. 75/M-DAG/PER/10/2014, Annex I)

Not listed.

Precursor Chemicals (Ministry of Industry and Trade Decree No. 647/MPP/Kep/10/2004 concerning Regulation on Import of Precursors, Attachment 1, Oct. 18, 2004)

Not regulated.

Prohibited Substances (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment II, Table 1)

Not regulated.

Restricted Substances (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment II, Table 2)

Not regulated.

Toxic and Hazardous Materials List (Decree of the Ministry of Industry on the Safeguarding of Toxic and Hazardous Materials in Industrial Plants, No. 148/M/SK/4/1985)

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.

Applicable regulations

Hazardous Substances Approved for Use (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment I)

Listed substances

Not regulated.

Listed substances / Allowed until 2040

Not regulated.

16. Other information

Issued by

Company name 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

04-Aug-2018

References and sources for data used to compile the SDS

Not available.

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 |