



SAFETY DATA SHEET

1. Product and company identification

Product name HP Z7Y70A Black Developer
Company identification HP New Zealand
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New Zealand 1010
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Recommended use and Limitations on use

Recommended use This product is a black developer preparation that is used in HP Color LaserJet Managed MFP E77822, HP Color LaserJet Managed MFP E77825, HP Color LaserJet Managed MFP E77830 series multifunction products.

2. Hazards identification

GHS classification

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

Label elements

Symbols 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. 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.

Supplemental information None.

3. Composition/information on ingredients

Substance or mixture Mixture

| Chemical property | CAS Number | Concentration (%) |
|-----------------------|----------------------------------|-------------------|
| Ferrite | Trade Secret | <95 |
| Styrene-Acrylic Resin | Trade Secret | <10 |
| Carbon black | 1333-86-4 | <2 |
| Paraffin wax | Trade Secret | <2 |
| Silica | Amorphous silica Trade Secret | <1 |

4. First aid measures

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|---|--|
| 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. |
| Potential delayed effects | Difficulty in breathing. Coughing. |
| Personal protection for first-aid responders | Not available. |
| Notes to physician | Not available. |

5. Fire-fighting measures

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| Extinguishing media | Dry chemical, CO2, water spray or regular foam. |
| Extinguishing media to avoid | None known. |
| HAZCHEM Code Number | None. |
| Specific hazards during fire fighting | 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. |
| Hazards from combustion products | Carbon monoxide and carbon dioxide. |
| Specific methods | None established. |

6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | 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 cleanup methods | Slowly vacuum or sweep the material into a bag or other sealed container. Clean remainder with a damp cloth or vacuum cleaner. Fine powder can form explosive dust-air mixtures. In case of large spills, follow all facility emergency response procedures. Dispose of in compliance with federal, state, and local regulations. |

7. Handling and storage

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|---|---|
| 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. |
| Prevention of fire and explosion | Not available. |
| Storage | |
| Suitable storage conditions | Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers. |
| Incompatible materials | Not available. |

8. Exposure controls/personal protection

Exposure limits

New Zealand. WES. (Workplace Exposure Standards)

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

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. |

UK. EH40 Workplace Exposure Limits (WELs)

| Components | Type | Value | Form |
|------------------------------|------|-----------|-------|
| Carbon black (CAS 1333-86-4) | STEL | 7 mg/m3 | |
| Paraffin Wax | TWA | 3.5 mg/m3 | |
| | STEL | 6 mg/m3 | Fume. |
| | TWA | 2 mg/m3 | Fume. |
| | | | |

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

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

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

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

| | |
|---------------------------------------|--|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Engineering controls | 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. |
| Skin protection | Protection suit must be worn. |
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Radioactive or thermal hazards | Not available. |
| 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

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|--|--------------------------|
| 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. |
| 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

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| 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

Information on likely routes of exposure

| | |
|---------------------|--|
| Ingestion | Ingestion is not a likely route of exposure. |
| Inhalation | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| Skin contact | Contact with skin may result in mild irritation. |
| Eye contact | Contact with eyes may result in mild irritation. |

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) | | |
| <u>Acute</u> | | |
| 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 sensitizer | Based on available data, the classification criteria are not met. |
| Skin sensitizer | 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.

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. |
| Relevant negative data | 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. |
| Partition coefficient n-octanol/water (log Kow) | Not available. |
| Bioconcentration factor (BCF) | Not available. |
| Mobility | Not available. |
| Other hazardous effects | This product has not been tested for ecological effects. |

13. Disposal considerations

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|-------------------------------------|--|
| Disposal methods/information | 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 . |
| Special precautions | 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**Applicable regulations****New Zealand Inventory of Chemicals (NZIoC): Registration status**

| | |
|---------------------------------|--|
| Carbon black (CAS 1333-86-4) | HSNO Approved |
| Paraffin wax (CAS Trade Secret) | May be used as a single component chemical under an appropriate group standard |
| Silica (CAS Trade Secret) | May be used as a single component chemical under an appropriate group standard |

| | |
|-------------------------------|--|
| 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

| | |
|--------------------|----------------|
| References | Not available. |
| Issued by | Not available. |
| Prepared by | Not available. |

Disclaimer

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25-Jan-2018

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02-Aug-2018

Revision information

Fire-fighting measures: Specific hazards during fire fighting
Accidental release measures: Spill cleanup methods
Regulatory information: Regulatory information
Other information: Disclaimer

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 |