



# SAFETY DATA SHEET

## 1. Identification

<b>Name of the substance or mixture (trade name)</b>	HP Z7Y69A Cyan Developer
<b>Major recommended uses for the substance or mixture</b>	This product is a cyan developer preparation that is used in HP Color LaserJet Managed MFP E87640, HP Color LaserJet Managed MFP E87650, HP Color LaserJet Managed MFP E87660 series printers.
<b>Specific restrictions for use of the substance or mixture</b>	Not available.
<b>Manufacturer/Importer/Distributor information</b>	
<b>Company identification</b>	HP Colombia SAS Carrera 7 No 99-53 Torre B Pisos 7 Bogota, Colombia
<b>Telephone</b>	(57) 1 639 0000
<b>HP Inc. health effects line</b>	
<b>(Toll-free within the US)</b>	1-800-457-4209
<b>(Direct)</b>	1-760-710-0048
<b>HP Inc. Customer Care Line</b>	
<b>(Toll-free within the US)</b>	1-800-474-6836
<b>(Direct)</b>	1-208-323-2551
<b>Email:</b>	hpcustomer.inquiries@hp.com

## 2. Hazards identification

### Classification of the substance or mixture

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Not classified.

### GHS labeling elements, including precautionary statements

<b>Hazard symbol(s)</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement(s)</b>	Not available.
<b>Precautionary statement(s)</b>	
<b>Prevention</b>	Not available.
<b>Response</b>	Not available.
<b>Storage</b>	Not available.
<b>Disposal</b>	Not available.

**Other hazards which do not result in classification** 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. Titanium dioxide is classified by IARC as a Group 2B carcinogen, meaning there is inadequate evidence in humans for the carcinogenicity of titanium dioxide, but there is sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide. Titanium dioxide 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

Mixture

Common chemical name or technical name	CAS number	Concentration or concentration range
Ceramic Materials And Wares, Chemicals	Trade Secret	<80%
Polyester resin Polyester resin	Trade Secret	<20%
Paraffin waxes and Hydrocarbon waxes	Trade Secret	<5%
Amorphous silica	Trade Secret	<1%
Carbon black	1333-86-4	<1%
Titanium dioxide	13463-67-7	<1%

#### 4. First-aid measures

##### First-aid measures

<b>Inhalation</b>	Move person to fresh air immediately. If irritation persists, consult a physician.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Rinse mouth with water. Drink one to two glasses of water. If symptoms occur, consult a physician.
<b>Most important symptoms/effects, acute and delayed</b>	Difficulty in breathing. Coughing.
<b>Notes to physician</b>	Not available.

#### 5. Fire-fighting measures

##### Means of fire extinguishing

<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
<b>Special fire fighting procedures</b>	If fire occurs in the printer, treat as an electrical fire.
<b>Protective measures taken by firefighting crews</b>	Wear self-contained breathing apparatus and protective clothing. Wear full set of protective equipment including chemical goggles and gloves.
<b>Specific methods</b>	None established.
<b>Hazardous combustion products</b>	Carbon monoxide and carbon dioxide.

#### 6. Control measures for spills and leaks

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

<b>To be taken by those who are not involved in rendering emergency services</b>	Avoid inhalation of dust. Wash thoroughly after dealing with a spillage. See Section 8 of the SDS for Personal Protective Equipment. Ensure adequate ventilation.
<b>To be taken by those who are involved in rendering emergency services</b>	Not available.
<b>Environmental precautions</b>	Avoid spreading dust or contaminated materials. Avoid discharge into drains, water courses or onto the ground.
<b>Methods and materials for containment and cleaning up</b>	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

<b>Precautions for safe handling</b>	Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Keep away from excessive heat, sparks, and open flames.
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**Conditions for safe storage, including any incompatibilities** Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers.

## 8. Exposure controls/personal protection

### Control parameters

#### 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 waxes and Hydrocarbon waxes	TWA	2 mg/m3	Fume.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

##### Chile. OELs (Reg. 594/1999, arts. 61 & 66, as amended on Jan 24, 2015)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3.1 mg/m3	
Paraffin waxes and Hydrocarbon waxes	TWA	1.6 mg/m3	Fume.

##### Colombia. OELs. Resolution No. 02400: Norms Concerning Working Conditions, Health and Safety in the Workplace

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Paraffin waxes and Hydrocarbon waxes	TWA	2 mg/m3	Fume.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

##### Ecuador. OELs (INEN 2266:2013, 2013-01 2nd rev.: Transport, storage and handling of hazardous materials. Requirements. 1st ed., 1/29, 2013)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Paraffin waxes and Hydrocarbon waxes	TWA	2 mg/m3	Fume.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

##### Paraguay. Decree No. 14.390/92 that approves the General Technical Regulation of Safety, Hygiene and Medicine in the Workplace

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

##### Peru. OELs. Decreto Supremo 015-2005-SA (Reglamento sobre Valores Limites Permisibles para Agentes Químicos en el Ambiente de Trabajo)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	
Paraffin waxes and Hydrocarbon waxes	TWA	2 mg/m3	Fume.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

##### Venezuela. OELs. (COVENIN 2253: Permissible Environmental Concentration Limits for Chemical Substances in Workplaces and Biological Exposure Indices)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	
Paraffin waxes and Hydrocarbon waxes	TWA	2 mg/m3	Fume.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

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<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	5 mg/m3 (Respirable Fraction) 3 mg/m3 (Respirable Particulate)
<b>Appropriate engineering controls</b>	Use in a well ventilated area.
<b>Personal protective measures</b>	
<b>Eyes and face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Rubber gloves are recommended. Wash hands after handling.
<b>Personal protective equipment</b>	
<b>General</b>	No personal respiratory protective equipment required under normal conditions of use.
<b>Personal protective measures</b>	
<b>Other</b>	Protection suit must be worn.
<b>Respiratory protection</b>	No personal respiratory protective equipment required under normal conditions of use.
<b>Thermal hazards</b>	Not available.
<b>Hygiene measures</b>	Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and chemical properties

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

## 10. Stability and reactivity

<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable under normal storage conditions.
<b>Possibility of hazardous reactions</b>	Stable
<b>Conditions to avoid</b>	Heat, sparks, flames. Sunlight. Avoid dust close to ignition sources.
<b>Incompatible materials</b>	This product may react with strong oxidizing agents. This product may react with strong acids.
<b>Hazardous decomposition products</b>	Carbon monoxide and carbon dioxide. Hydrogen.

## 11. Toxicological information

### Information on likely routes of exposure

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

**Symptoms** Not available.

**Acute toxicity** Based on available data, the classification criteria are not met. LD50/oral/rat >5000 mg/kg

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Carbon black (CAS 1333-86-4)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 10000 mg/kg
Ceramic Materials And Wares, Chemicals		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2500 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 2.3 mg/l, 4 Hours > 0.888 mg/l
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg

**Skin irritation and corrosion** 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.

Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to titanium dioxide is much lower.

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

### ACGIH Carcinogens

Carbon black (CAS 1333-86-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Titanium dioxide (CAS 13463-67-7)	A4 Not classifiable as a human carcinogen.

**Colombia. OELs. Resolution No. 02400: Norms Concerning Working Conditions, Health and Safety in the Workplace**

Carbon black (CAS 1333-86-4) A3 Animal carcinogen.  
 Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

**Ecuador. OELs (INEN 2266:2013, 2013-01 2nd rev.: Transport, storage and handling of hazardous materials. Requirements. 1st ed., 1/29, 2013)**

Carbon black (CAS 1333-86-4) Group A3 Confirmed animal carcinogen with unknown relevance to humans.  
 Titanium dioxide (CAS 13463-67-7) Group A4 Not classifiable as a human carcinogen.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.  
 Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

**Paraguay. Decree No. 14.390/92 that approves the General Technical Regulation of Safety, Hygiene and Medicine in the Workplace**

Carbon black (CAS 1333-86-4) A3 Confirmed animal carcinogen with unknown relevance to humans.  
 Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

**Venezuela. OELs. (COVENIN 2253: Permissible Environmental Concentration Limits for Chemical Substances in Workplaces and Biological Exposure Indices)**

Carbon black (CAS 1333-86-4) A4 Not classifiable as a human carcinogen.  
 Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

**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.  
**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.

Components	Species	Test Results
Ceramic Materials And Wares, Chemicals (CAS Trade Secret)		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	ErC50	Algae 184.6 mg/l, 72 h
Crustacea	EC50	Invertebrates (Invertebrates) 1.9 mg/l, 48 h
Fish	LC50	Fish 457 mg/l, 96 h
<i>Chronic</i>		
Fish	EC50	Fish 0.151 mg/l, 7 d
	LC50	Fish 1.94 mg/l, 16 d

**Persistence and degradability** Not available.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)** Not available.

**Bioconcentration factor (BCF)** Not available.

**Mobility in soil** Not available.

**Other adverse effects** This product has not been tested for ecological effects.

**13. Considerations on final disposal**

**Recommended methods for final destination**

**Residual waste** Not available.

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<b>Contaminated packaging</b>	Not available.
<b>Local disposal regulations</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.  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> .

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## 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.

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## 15. Regulatory information

### Federal regulations

**Colombia. Controlled Substances (Resolution No. 009 of 1987 nationally regulating the transport & use of substances in subparagraph. f) of article 20 of Law 30 of 1986, as amended)**

Not listed.

**Venezuela. Chemical Precursors (Official Gazette No. 34.741, List I & II)**

Not regulated.

### International 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.

#### Montreal Protocol

Not applicable.

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Kyoto protocol

Not applicable.

#### Basel Convention

Not applicable.

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## 16. Other information

**Significant information, yet not specifically related to the previous sections** Not available.

**Revision information** Hazards identification: Other hazards which do not result in classification  
Composition / Information on Ingredients: Ingredients  
Exposure controls/personal protection: Exposure guidelines  
Toxicological information: Carcinogenicity

## Disclaimer

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## 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