



SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

1.1 GHS product identifier	HP LaserJet Q5949A-X-XC-XD Print Cartridge
1.2 Other means of identification	Not available.
1.3 Recommendations and restrictions on the use of substances or mixtures	
Recommended use	This product is a toner preparation that is used in HP LaserJet 1160/1320/3390/3392 series printers.
Recommended restrictions	Not available.
1.4 Supplier's details	
	HP Inc (Thailand) Ltd. 968 U Chu Liang Building, 3rd Floor, Rama IV Rd., Silom, Bangrak, BKK 10500 Bangkok, Bangkok, Thailand 10500
Telephone	66 2353 0888
Main Fax	66 2353 9555
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

2. Hazards identification

2.1 GHS classification of substance or mixture, and national or regional information	
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
2.2 GHS label elements	
Hazard symbol(s)	None.
Signal word	None.
Hazard statement(s)	Not available.
Precautionary statement(s)	Not available.
2.3 Other hazards which do not result in GHS classification	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

3.2 Mixture

Chemical identity	Common name and synonym	CAS number and other unique identifiers	Concentration or concentration range
Polyester resin	Polyester resin	CBI	<55
Iron oxide		1317-61-9	<50
Amorphous silica	Amorphous silica	7631-86-9	<3

4. First-aid measures

4.1 Description of first-aid measures

Inhalation	Move person to fresh air immediately. If irritation persists, consult a physician.
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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 out with water. Drink one to two glasses of water. If symptoms occur, consult a physician.
4.2 Most important symptoms/effects, acute and delayed	Not available.
4.3 Indication of immediate medical considerations and important specific treatment that should be performed	Not available.

5. Fire-fighting measures

5.1 Prohibited extinguishing media and suitable extinguishing media

Suitable extinguishing media	CO2, water, or dry chemical
Unsuitable extinguishing media	None known.

5.2 Specific hazards arising from chemicals Not applicable.

5.3 Special protective equipment and precautions for fire-fighters Not available.

Fire fighting equipment/instructions If fire occurs in the printer, treat as an electrical fire.

Specific methods None established.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Minimize dust generation and accumulation.

6.2 Environmental precautions Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

6.3 Methods and materials for containment and cleaning up Not available.

Other issues relating to spills and releases 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

7.1 Precautions for safe handling, use and storage Keep out of the reach of children. Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Keep away from excessive heat, sparks, and open flames.

7.2 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

8.1 Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

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

Exposure guidelines , 5 mg/m3 (Respirable Fraction)

, 3 mg/m3 (Respirable Particulate)

Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10 mg/m3

TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion)

UK WEL: 10 mg/m3 (Respirable Dust), 5 mg/m3 (Inhalable Dust)

8.2 Appropriate engineering controls Use in a well ventilated area.

8.3 Personal protective measures

Eye/face protection	Not available.
Skin protection	
Hand protection	Not available.
Other	Not available.
Respiratory protection	Not available.
Thermal hazards	Not available.

9. Physical and chemical properties

9.1 Appearance	Fine powder
Physical state	Solid.
Form	solid
Color	Black.
9.2 Odor	Slight plastic odor
9.3 Odor threshold limit	Not available.
9.4 pH	Not applicable
9.5 Melting point/freezing point	Not available.
9.6 Initial boiling point and boiling range	Not applicable
9.7 Flash point	Not applicable
9.8 Evaporation rate	Not applicable
9.9 Flammability (solid, gas)	Not available.
9.10 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.
9.11 Vapor pressure	Not applicable
9.12 Vapor density	Not applicable
9.14 Solubility(ies)	
Solubility (water)	Negligible in water. Partially soluble in toluene and xylene.
9.15 Partition coefficient: n-octanol/water	Not available.
9.16 Auto-ignition temperature	Not applicable
9.17 Decomposition temperature	> 392 °F (> 200 °C)
9.18 Viscosity	Not applicable
Other information	
Oxidizing properties	No information available.
Percent volatile	Negligible
Softening point	212 - 302 °F (100 - 150 °C)
Specific gravity	1.4 - 1.8
VOC	Not applicable

10. Stability and reactivity

10.1 Reactivity	Not available.
10.2 Chemical stability	Stable under normal storage conditions.
10.3 Possibility of hazardous reactions	Will not occur.
10.4 Conditions to avoid	Imaging Drum: Exposure to light
10.5 Incompatible materials	Strong oxidizers
10.6 Hazardous decomposition products	Carbon monoxide and carbon dioxide.

11. Toxicological information

11.1 Information on likely routes 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.
Ingestion	Ingestion is not a likely route of exposure.

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

11.3 Delayed and immediate effects, including chronic effects from short- and long-term exposure Not available.

11.4 Numerical values of toxicity

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

Product	Species	Test Results
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Q5949A-X-XC-XD

Acute

LD50	> 2000 mg/kg
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Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

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.

IARC. Monographs on the evaluation of carcinogenic risks to humans

Amorphous silica (CAS 7631-86-9)	3 Not classifiable as to carcinogenicity to humans.
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Reproductive toxicity 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.

Further 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.

12. Ecological information

12.1 Ecological toxicity LL50: > 1000 mg/l, Fish, 96.00 Hours

Product	Species		Test Results
Q5949A-X-XC-XD			
Aquatic			
Algae	ErL50	Algae	> 1000 mg/l, 72 Hours
Crustacea	EL50	Crustacea	> 1000 mg/l, 48 Hours
Fish	LL50	Fish	> 1000 mg/l, 96 Hours

12.2 Persistence and degradability Not available.

12.3 Bioaccumulative potential Not available.

12.4 Mobility in soil Not available.

12.5 Other adverse effects Not available.

13. Disposal considerations

Disposal instructions	Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations. 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 .
Local disposal regulations	Not available.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

UN number	UN2807
UN proper shipping name	Magnetized Material
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	No.
Special precautions for user	Not available.

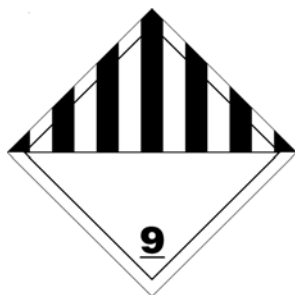
IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

IATA



Further information	22or more of these cartridges shipped together in a single package (e.g., box, container), by air, are regulated as a magnetized material.
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15. Regulatory information

Federal regulations

Thailand. Explosive Substances & Precursors (Ministry of Defense Notification Re: Arms Subject to Imports License)

Not regulated.

Thailand. Notification of the Ministry of Interior, Re: Work Safety Relating to Dangerous Chemicals

Not regulated.

Thailand. Notification of the Ministry of Interior, Re: Work Safety Relating to More Dangerous Chemicals

Not regulated.

Thailand. Reportable Hazardous Substances (Notification of Ministry of Industry Re: Bases respecting report of quantity of hazardous materials under Department of Industrial Works, B.E. 2547)

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.

16. Other information, including date of preparation or last revision

Issue date	17-Apr-2018
Version #	01

Disclaimer

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Revision information

Product and Company Identification: Synonyms
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
Toxicological Information: Toxicological Data
Ecological Information: Ecotoxicity
Transport Information: Agency Name, Packaging Type, and Transport Mode Selection

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