



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation HP LaserJet Q2612A-AC-AD-AF-L Print Cartridge

Issue date 25-Jun-2015

Revision date 22-Sep-2015

Version # 02

Recommended use This product is a toner preparation that is used in HP LaserJet M1005mfp/1010/1012/1015/1018/1020/1020 plus/1022/M1319mfp/3015/3020/3030/3050/3050Z/3052/3055 series printers.

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2. HAZARDS IDENTIFICATION

GHS classification

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.3 Other hazards which do not result in GHS classification Not Classified

GHS label elements

Signal word None.

Hazard symbols None.

Hazard statement None.

Precautionary statement

Prevention None.

Response None.

Storage None.

Disposal None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Styrene acrylate copolymer	Trade Secret	<55
Iron oxide	1317-61-9	<50
Amorphous silica	7631-86-9	<3

4. FIRST AID MEASURES

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.

5. FIRE-FIGHTING MEASURES

Flash point	Not applicable
Suitable extinguishing media	CO ₂ , water, or dry chemical
Extinguishing media which must not be used for safety reasons	None known.
Unusual fire & explosion hazards	Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.
Fire fighting equipment/instructions	If fire occurs in the printer, treat as an electrical fire.
Specific methods	None established.
Hazardous combustion products	Carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Minimize dust generation and accumulation.
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

7. HANDLING AND STORAGE

Handling	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.
Storage	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

Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	
Additional exposure data	USA OSHA (TWA/PEL): 15 mg/m ³ (Total Dust), 5 mg/m ³ (Respirable Fraction) ACGIH (TWA/TLV): 10 mg/m ³ (Inhalable Particulate), 3 mg/m ³ (Respirable Particulate) Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m ³)/%SiO ₂ , ACGIH (TWA/TLV): 10 mg/m ³ TRGS 900 (Luftgrenzwert) - 10 mg/m ³ (Einatembare partikel), 3 mg/m ³ (Alveolengängige fraktion) UK WEL: 10 mg/m ³ (Respirable Dust), 5 mg/m ³ (Inhalable Dust)
Engineering measures to reduce exposure	Use in a well ventilated area.
Personal protective equipment	
Skin and body protection	Not available.
General	No personal respiratory protective equipment required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine powder
Physical state	Solid.
Color	Black.
Odor	Slight plastic odor
Odor threshold	Not available.
pH	Not applicable
Vapor pressure	Not applicable
Boiling point	Not applicable
Melting point/Freezing point	Not available.
Solubility (water)	Negligible in water. Partially soluble in toluene and xylene.
Flash point	Not applicable
Flammability limits in air, upper, % by volume	Not available.

Flammability limits in air, lower, % by volume	Not flammable
Auto-ignition temperature	Not applicable
Viscosity	Not applicable
Percent volatile	0 % estimated
Softening point	212 - 302 °F (100 - 150 °C)
Other data	
Decomposition temperature	> 392 °F (> 200 °C)
Oxidizing properties	No information available.
Specific gravity	1.4 - 1.8

10. STABILITY AND REACTIVITY

Conditions to avoid	Imaging Drum: Exposure to light
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Stability	Stable under normal storage conditions.
Materials to avoid	Strong oxidizers
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Based on available data, the classification criteria are not met.
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	
Skin sensitization	Based on available data, the classification criteria are not met.
Respiratory sensitization	Based on available data, the classification criteria are not met.
Carcinogenicity	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.
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.
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.

Toxicological data

Components	Species	Test Results
Amorphous silica (CAS 7631-86-9)		
Acute		
<i>Oral</i>		
LD50	Mouse	> 15000 mg/kg
	Rat	> 22500 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Product	Species	Test Results
Q2612A-AC-AD-AF-L		
Aquatic		
Fish	LL50 Rainbow Trout	> 1000 mg/l, 96 Hours
Environmental 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>.

14. TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods.

IATA

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

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

Further information 168 or more of these cartridges shipped together in a single package (e.g., box, container), by air, are regulated as a magnetized material. These requirements do not apply to single or dual pack cartridges contained in an original HP package and shrink wrapped on a pallet for shipment by air.

15. REGULATORY INFORMATION

Federal regulations

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.

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. OTHER INFORMATION

Disclaimer

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

Prepared by

HP

Issue date 25-Jun-2015
Revision date 22-Sep-2015
Version # 02
This data sheet contains changes from the previous version in section(s): OTHER INFORMATION: 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)
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