SAFETY DATA SHEET

1. Identification of the chemical and information about the manufacturer or supplier

1.1 Identification of the chemical products

1.1.1 Technical name HP LaserJet C8543X-XC-YC-JC Print Cartridge

Other means of identification None.

1.1.2 Recommended use of the chemical and restrictions on use

Recommended use This product is a toner preparation that is used in HP LaserJet 9000/9000mfp/9000L/9040/9040mfp/M9040mfp/9050/9050mfp/M9050mfp series printers.

Limitations on use None known.

1.2 Manufacturer/Importer/Supplier/Distributor information

1.2.1 Manufacturer

ZAO Hewlett-Packard A.O.
Highway Leningradskoe, House 16A, Building 3,
125171, Moscow

Telephone 7 495 797-3500

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. Hazard(s) identification

2.1. Hazard identification of chemical product as a whole (classification according to GOST 12.1.007-76 and GHS)

Classification according to GOST 12.1.007-76 Not available.

GHS classification

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

2.2 Labeling elements in compliance with GOST 31340-2013

2.2.1 Signal word None.
2.2.2 Symbols None.
2.2.3 Hazard statement Not available.

Precautionary statement

Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

Other hazards 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

3.1 Information on product as a whole

3.1.1 Chemical name (IUPAC) C8543X-XC-YC-JC
3.1.2 Chemical formula Fe3O4 (1317-61-9), O2Si (7631-86-9), O2Si (7631-86-9)

3.1.3 General description of the composition (taking into account the brand assortment; preparation method) Not applicable.

3.2 Components

Components	Concentration by weight (%)	Hygienic standards in the working area MAC, mg/m3	TSEL, mg/m3	Hazard classification	CAS-No.	EC No.
Styrene acrylate copolymer	<55				Trade Secret	-
Iron oxide	<50				1317-61-9	215-277-5
Amorphous silica	<3	3	1	3	7631-86-9	231-545-4

4. First-aid measures

4.1. Observed symptoms

4.1.1 In case of exposure via inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

4.1.2 In contact with skin Contact with skin may result in mild irritation.

4.1.3 In contact with eyes Contact with eyes may result in mild irritation.

4.1.4 In case of exposure via ingestion Ingestion is not a likely route of exposure.

4.2 First-aid measures to be provided to victims

4.2.1 In case of exposure via inhalation Move person to fresh air immediately. If irritation persists, consult a physician.

4.2.2 In contact with skin Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

4.2.3 In contact with eyes 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.

4.2.4 In case of exposure via ingestion Rinse mouth with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

4.2.5 Contraindications Not available.

5. Fire-fighting and explosion safety measures and means

5.1 General characteristics of fire-explosion properties Not available.

5.2 Fire-explosion indicators Not available.

5.3 Combustion and/or thermal destruction products and hazards arising from these Not available.

5.4 Recommended extinguishing media CO_2, water, or dry chemical

5.5 Forbidden extinguishing media None known.

5.6 Special protective equipment for firefighters Not available.

5.7 Specific extinguishing methods None established.

Special fire fighting procedures If fire occurs in the printer, treat as an electrical fire.

6. Accident and emergency prevention and response measures and their consequences

6.1 Measures to prevent harmful effects on people, environment, buildings, constructions, etc. in case of accidents and emergencies

6.1.1 General required actions in case of an accident or emergency Minimize dust generation and accumulation.

6.1.2 Personal protection equipment in case of the accident Not available.

6.2 Procedures for the elimination of accidents and emergencies

6.2.1 Procedures in case of leaks, spills, splashes	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.
6.2.2 Actions in case of fire	Not available.
Environmental precautions	Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

7. Storage and handling requirements of chemicals during loading and unloading

7.1 Safety precautions when handling chemical products

7.1.1 Technical safety measures	Not available.
7.1.2 Environmental protection measures	Not available.
7.1.3 Recommended safe handling and transportation advice	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 Chemical storage requirements

7.2.1 Terms and conditions for safe storage	Not available.
7.2.2 Packaging	Not available.
7.3 Safety measures and storage requirements at domestic use	Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers.

8. Equipment for monitoring exposure and personal protective equipment

8.1 Parameters of the working area that require monitoring No exposure limits noted for ingredient(s).

Occupational exposure limits

Russian Federation. Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	Ceiling	3 mg/m3	Aerosol.
	TWA	1 mg/m3	Aerosol.

8.2 Measures to ensure the content of harmful substances in the working area below the exposure level concentration

, 5 mg/m3 (Respirable Fraction)

, 3 mg/m3 (Respirable Particulate)

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

Appropriate engineering controls Use in a well ventilated area.

8.3 Worker personal protective equipment

8.3.1 General recommendations	No personal respiratory protective equipment required under normal conditions of use.
8.3.2 Respiratory protection	Not available.
8.3.3 Protective equipment	
Eye/face protection	Not available.
Hand protection	Not available.
Other	Not available.
Thermal hazards	Not available.
8.3.4 Personal protection equipment in case of domestic use	Not applicable.

9. Physical and chemical properties

9.1 Physical appearance	Fine powder
Physical state	Solid.
Form	solid
Color	Black.

Odor	Slight plastic odor
Odor threshold	Not available.

9.2 Parameters characterizing basic properties of the product

pH	Not applicable
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not applicable
Flash point	Not available.
Auto-ignition temperature	Not applicable
Decomposition temperature	> 392 °F (> 200 °C)

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not flammable
Flammability limit - upper (%)	Not available.
Vapor pressure	Not applicable
Vapor density	Not applicable
Viscosity	Not applicable

Solubility(ies)

Solubility (water)	Negligible in water. Partially soluble in toluene and xylene.
Partition coefficient (n-octanol/water)	Not available.

Other data

Oxidizing properties	No information available.
Percent volatile	0 % estimated
Softening point	212 - 302 °F (100 - 150 °C)
Specific gravity	1.4 - 1.8

10. Stability and reactivity

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

11. Toxicological information

11.1 General exposure characteristics	Not available.
11.2 Routes of exposure	Not available.

11.3 Affected/target organs, tissues and systems of humans

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.

11.4 Information on health hazards in case of direct exposure to the product and its effect

Effect on upper respiratory tract irritation	Not available.

Respiratory or skin sensitization

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

Not listed.

Respiratory sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	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.
Aspiration hazard	Based on available data, the classification criteria are not met.

11.5 Information on long-term hazardous health effects

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

IARC Monographs. Overall Evaluation of Carcinogenicity

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

Reproductive toxicity	Based on available data, the classification criteria are not met.
Mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) Based on available data, the classification criteria are not met.
Cumulativeness	Not available.
Chronic effects	Not available.
11.6 Acute toxicity data	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. Environmental impact information

12.1 General description of the impact on the environment	Not available.
12.2 Routes of exposure to environment	Not available.

12.3 The most important characteristics of the environmental impact

12.3.1 Hygienic standards	Not available.
12.3.2 Ecotoxicity	LL50: > 1000 mg/l, Rainbow Trout, 96.00 Hours

Product		Species	Test Results
C8543X-XC-YC-JC			
Aquatic			
Fish	LL50	Rainbow Trout	> 1000 mg/l, 96 Hours

12.3.3 Biomigration and transformation of the environment due to the biodegradation or other processes

Persistence and degradability	Not available.
Bioaccumulative potential	Not available.
Mobility in soil	Not available.
Other adverse effects	Not available.

13. Recommendations for waste (residues) disposal

13.1 Safety precautions when handling the waste generated during use, storage, transportation	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.
13.2 Information on the location and disposal methods, recycling or disposal of product waste, including packaging	Not available.
13.3 Recommendation on the waste disposal generated during its domestic use	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	Not available.
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.

Further information 2or 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. National and international regulatory information

15.1 National legislation

15.1.1 Laws of the Russian Federation Not available.

15.1.2 Information about the documentation, regulatory requirements for the protection of human health and environment

Sanitary-Epidemiological Rules,1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008

Not listed.

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

Amorphous silica (CAS 7631-86-9)	Aerosol with fibrogenic action. Midrange hazardous.

15.2 International Conventions and Agreements 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.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

16.1 Information on revision of the SDS

Issue date	27-Apr-2018
Version #	01
Previous SDS number	Not applicable.
Revision information	1. Product and Company Identification: Alternate Trade Names Transport information: Further information National and international regulatory information: 15.2 International Conventions and Agreements Other information: Disclaimer

16.2 List of references used in compiling the safety data sheet Not available.

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