MATERIAL SAFETY DATA SHEET



1. Chemical product and company identification

A. Product name B3F57Series

B. Recommended use and Limitations on use Recommended use Inkjet printing

C. Supplier information

HP Korea House 23-6 Yoido-dong Youngdeungpo-gu Seoul 150-742, Korea

Telephone (02) 2199-0114

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

A. Hazard category/Classification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

B. Warning label items including precautionary statement

Pictogram None.
Signal word None.
Hazard statement None.
Precautionary statement None.

C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)

Complete toxicity data are not available for this specific formulation.

Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use

conditions.

None.

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.

Supplemental information

3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
Water		7732-18-5	KE-35400	75-85
2-pyrrolidone		616-45-5	KE-29978	<15
Carbon black		1333-86-4	KE-04682	<5
Isopropyl alcohol		67-63-0	KE-29363	<2.5

Composition comments This ink supply contains an aqueous ink formulation.

Carbon black is present only in a bound form in this preparation.

4. First aid measures

A. In case of 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 get medical attention.

B. In case of skin contact Wash affected areas thoroughly with mild soap and water. If irritation persists get medical

attention.

C. In case of inhalation Move to fresh air. If symptoms persist, get medical attention.

D. In case of swallowing If ingestion of a large amount does occur, seek medical attention.

E. Note to physician Not available.

5. Fire-fighting measures

A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

media

None known.

B. Specific hazards arising from the chemical (example: hazardous combustion

products)

Not available.

C. Specific methods of fire-fighting

Special protective

General fire hazards

None established.

equipment for firefighters

Contact with skin and eyes may result in irritation.

Specific methods None established.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency measures

Wear appropriate personal protective equipment.

B. Environmental precautions

C. Methods and materials for containment and cleaning up

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Slowly vacuum or sweep

the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations.

7. Handling and storage

A. Precautions for safe handling

Avoid contact with skin, eyes and clothing.

B. Conditions for safe storage (including any

(including any incompatibilities)

Components

Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure controls/personal protection

A. Exposure limit values, biological limit values, etc

Korea. OELs. Standards for Exposure to Chemical Substances and Physically Hazardous Factors

Type

	71.		
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	STEL	980 mg/m3	
·		400 ppm	
	TWA	480 mg/m3	
		200 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
,	TWA	200 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines Exposure limits have not been established for this product.

B. Appropriate engineering

controls

Use in a well ventilated area.

C. Personal protective equipment

 Respiratory protection Not available. Not available. Eye protection

Recommended gloves: Nitrile 4 mil minimum thickness. Hand protection

Not available. Body protection

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

A. Appearance

Physical state Liquid. **Form** Not available. Color Black. B. Odor Not available. C. Odor threshold Not available.

7.8 - 8.4 D. pH E. Melting point/freezing point Not available. F. Boiling point, initial boiling

point, and boiling range

200 °F (93.33 °C)

131.0 - 136.0 °F (55.0 - 57.8 °C) Pensky-Martens Closed Cup G. Flash point

Not determined H. Evaporation rate I. Flammability (solid, gas) Not available.

J. Upper/lower limit on flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

Not available.

Not available.

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. K. Vapor pressure Not determined

L. Solubility

Soluble in water Solubility (water) M. Vapor density Not available. 1 - 1.2 N. Specific gravity

O. n-octanol/water partition

Not determined

coefficient

Not available. P. Auto-ignition temperature Q. Decomposition temperature Not available. R. Viscosity > 2 cp

Not available. S. Molecular weight

Other data

Bulk density 1 - 1.2 gm/ml Not determined **Oxidizing properties** VOC < 116.6 g/l

10. Stability and reactivity

A. Stability and hazardous reaction potential

Stability Stable under recommended storage conditions. Hazardous reaction potential

Will not occur.

B. Conditions to avoid (e.g. static discharge, shock or vibration, etc)

Not available.

C. Incompatible materials

Incompatible with strong bases and oxidizing agents.

D. Hazardous decomposition products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

A. Information on likely routes of exposure

• Respiratory organs Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin Contact with skin may result in mild irritation.
 Eyes Contact with eyes may result in mild irritation.

Mouth Health injuries are not known or expected under normal use.

B. Information on health hazards

 Acute toxicity (list all possible routes of exposure) Based on available data, the classification criteria are not met.

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

<u>Acute</u>

Oral

LD50 Rat > 5000 mg/kg

Carbon black (CAS 1333-86-4)

Acute Oral

LD50 Rat > 10000 mg/kg

• Corrosivity or irritation to

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

the skin

• Serious eye damage/eye

irritation

Not classified as an irritant according to, OECD 405. Based on available data, the classification

criteria are not met.

Respiratory sensitization

Skin sensitization
 Carcinogonic properties

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

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

Carcinogenic properties
/Carcinogenicity

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 proportion.

bound form in this preparation.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

 Mutagenic properties /Mutagenicity Based on available data, the classification criteria are not met.

Reproductive toxicitySpecific target organ

toxicity - single exposure

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

12. Ecological information

A. Ecotoxicity

Product		Species	Test Results
B3F57Series			
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	> 750 mg/l, 96 hours
Components		Species	Test Results
2-pyrrolidone (CAS 616	-45-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
Isopropyl alcohol (CAS	67-63-0)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Acute			
Algae	EC50	Algae	> 1000 mg/l, 72 hours
Crustacea	EC50	Daphnia	13299 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	9460 mg/l, 96 hours
atic toxicity	Not exped	cted to be harmful to aquatic organisms.	

Aq

No data is available on the degradability of this product. B. Persistence/degradability

C. Bioaccumulative potential

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85 Isopropyl alcohol 0.05

D. Mobility in soil Not available. E. Other adverse effects Not available.

13. Disposal considerations

A. Method of disposal Do not allow this material to drain into sewers/water supplies.

Dispose of waste material according to Local, State, Federal, and Provincial Environmental

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.

B. Disposal considerations (including disposal of contaminated containers or packaging)

No special precautions.

14. Transport information

DOT

Not regulated as dangerous goods.

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.

> No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous

Goods Regulations Section 3.3.1.3.

15. Regulatory information

A. Restrictions under the Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacturing

Not regulated.

Harmful Substances Requiring Permission for Manufacture or Use

Not regulated.

Controlled Hazardous Substances

ISOPROPYL ALCOHOL (CAS 67-63-0)

Harmful Substances Requiring Special Medical Examination

ISOPROPYL ALCOHOL (CAS 67-63-0)

Workplace Environmental Monitoring Harmful Materials

ISOPROPYL ALCOHOL (CAS 67-63-0)

Occupational Exposure Limit

CARBON BLACK (CAS 1333-86-4) ISOPROPYL ALCOHOL (CAS 67-63-0)

B. Restrictions under the Chemicals Control Law (Previously Toxic Chemicals Control Law)

Accidental Release Prevention Substances

Not regulated.

Observational Chemicals

Not regulated.

C. Restrictions under the Dangerous Substance Safety Management Act

D. Restrictions under the Wastes Control Act

Halogenated Materials in Waste Organic Solvents

Not regulated.

Hazardous Substances

Not regulated.

E. Restrictions under other foreign or domestic laws

Clean Air Conservation Act

Air Pollutants

Not regulated.

Specific Air Pollutants

Not regulated.

Act on the Registration and Evaluation of Chemicals

Banned Toxic Chemicals

Not regulated.

Designated Existing Chemicals Subject to Registration (PEC) (MoE No. 2015-92)

Not listed.

Restricted Chemical Substances

Not regulated. Toxic Chemicals

Not regulated.

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

A. Source of information Not available. **B. Issue date** 14-Aug-2015

C. Number of revisions and date of most recent revision

25-Oct-2018 (04 revision)

D. Other Not available.

Disclaimer

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs. 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.

Revision information

9. Physical & Chemical Properties: Multiple Properties

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