

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the

preparation

C9351 Series

Selectability number 21

Use of the preparation Inkjet printing

Manufacturer information Hewlett-Packard Company

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

Hewlett-Packard health effects line

(Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199

General information telephone number

HP Customer Care Line 1-800-474-6836 (Toll-free) 1-800-474-6836 (Direct) 1-208-323-2551

Date prepared Jan 26, 2007

MSDS number 146849

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight
Water	7732-18-5	> 70
2-pyrrolidone	616-45-5	< 15
Carbon black	1333-86-4	< 5
Isopropyl Alcohol	67-63-0	< 2.5
Composition comments	This ink supply contains an aqueous ink formulation.  This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard	

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

## 3. HAZARDS IDENTIFICATION

**Emergency overview** Contact with skin and eyes may result in irritation.

Isopropyl Alcohol

Contact with skin and eyes may result in irritation. Inhalation may cause drowsiness or

dizziness.

**Acute health effects**Any potential hazards are presumed to be due to exposure to the components.

Skin contact

2-pyrrolidone

Contact with skin may result in irritation.

Eye contact

2-pyrrolidone

Contact with eyes may result in irritation.

Isopropyl Alcohol

Contact with eyes may result in severe irritation.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Isopropyl Alcohol

Inhalation may cause drowsiness or dizziness.

Material name C9351 SERIES Creation date Apr 30, 2003

Ingestion

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Potential health effects

Routes of exposure 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.

Complete toxicity data are not available for this specific formulation

Isopropyl Alcohol

Potential routes of exposure under normal use conditions are skin, eye contact and inhalation.

Chronic health effects Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung

tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this

ink.

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly

carcinogenic to humans).

None of the other ingredients in this preparation are classified as carcinogens according to

ACGIH, EU, IARC, MAK, NTP or OSHA.

Other information

Isopropyl Alcohol

This product is classified for health and physicochemical effects according to EU Directive

1999/45/EC with R11, R36 and R67.

## 4. FIRST AID MEASURES

First aid procedures

**Skin** Wash affected areas thoroughly with mild soap and water. If irritation persists get medical

attention. Wash affected areas thoroughly with mild soap and water and Get medical attention

if irritation develops or persists.

Eye 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. 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.

**Inhalation** Move to fresh air. If symptoms persist, get medical attention. Move to fresh air, If symptoms

persist, get medical attention.

**Ingestion** If ingestion of a large amount does occur, seek medical attention. If ingestion of a large amount

does occur, seek medical attention.

## 5. FIRE FIGHTING MEASURES

Flash point and method 131 - 136 °F; Pensky-Martens Closed Cup; No ignition, sustained combustion or flashing

detected using the Sustained Combustibility Test (method in US 49CFR173, Appendix H).

Hazardous combustion

products

Refer to section 10. Carbon monoxide and carbon dioxide.

**Extinguishing media** CO2, water, dry chemical, or foam Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known. None known.

Unusual fire and explosion

hazard

None known. Flammable Liquid and Will burn if involved in a fire and Vaporizes easily at

normal temperatures and Vapors may travel to a source of ignition and flash back.

Special firefighting procedures None established.

Material name C9351 SERIES Creation date Apr 30, 2003 MSDS US

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear appropriate personal protective equipment. Wear appropriate personal protective

equipment and Ensure adequate ventilation and Remove all sources of ignition.

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

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

Procedures if material is released or spilled

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations. Soak up with inert absorbent material, Clean remainder with a damp cloth or vacuum cleaner, Dispose of in compliance with federal, state, and local

regulations, See also section 13 Disposal considerations.

## 7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition and

Avoid contact with skin and eyes Use this product with adequate ventilation.

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

excessive heat, sparks, and open flames.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values Exposure limits have not been established for this product.

OSHA - Final PELs - Time Weighted Averages (TWAs)

Isopropyl Alcohol 67-63-0 400 ppm TWA; 980 mg/m3 TWA

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)
Isopropyl Alcohol 67-63-0 200 ppm TWA

OSHA - Final PELs - Time Weighted Averages (TWAs)

Carbon black 1333-86-4 3.5 mg/m3 TWA
ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)
Carbon black 1333-86-4 3.5 mg/m3 TWA

Personal protective equipment

General Use personal protective equipment to minimize exposure to skin and eve. Use personal

protective equipment to minimize exposure to skin and eye.

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

with good industrial hygiene and safety practice.

**Exposure guidelines**Use in a well ventilated area. Use in a well ventilated area.

## 9. PHYSICAL & CHEMICAL PROPERTIES

**pH** 7.8 - 8.4

Vapor pressure Not determined

**Boiling point** > 200 °F

**Soluble** in water

Specific gravity 1 - 1.2 g/mL

VOC content < 3 %

Flash point 131 - 136 °F

Viscosity > 2 cp

Vapor density> 1 (air = 1.0)Evaporation rateNot determinedAppearanceClear liquid

Oxidizing properties Not determined No information available.

Color Black

Material nameC9351 SERIESMSDS USCreation dateApr 30, 2003Version number 53 / 6



### 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stable under recommended storage conditions. Stable under recommended storage Stability

conditions.

Heat, flames and sparks. Conditions to avoid Will not occur. Will not occur. Hazardous polymerization

Hazardous decomposition

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Carbon monoxide and carbon

dioxide

Incompatible with strong bases and oxidizing agents. Incompatible with strong acids and Incompatibility

bases.

#### 11. TOXICOLOGICAL INFORMATION

Complete toxicity data are not available for this specific formulation.

Refer to Section 3 for potential health effects and Section 4 for first aid measures. Complete toxicity data are not available for this specific formulation Refer to Section 3 for potential health effects and Section 4 for first aid measures.

LD50/oral/rat >4000 mg/kg , (OECD 401). **Oral toxicity** 

**Dermal toxicity** LD50/dermal/rabbit > 12000 mg/kg, (OECD 402).

LC50: inh/rat 72,6 mg/l/4 hrs., (OECD 403). Inhalation toxicity

Carcinogenicity

**OSHA - Hazard Communication Carcinogens** 

1333-86-4 Present Carbon black

Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Isopropyl Alcohol 67-63-0 eyes, skin, respiratory system

NIOSH - Pocket Guide - Target Organs

Carbon black 1333-86-4 respiratory system, eyes (lymphatic cancer in presence of PAHs)

## 12. ECOLOGICAL INFORMATION

**Aquatic toxicity** LC50/96h/Fathead minnows =>750 mg/L LC50/96h/Fathead minnows =9460 mg/L.

> EC50/48h/daphnia =13299 mg/L. EC50/72h/algae =/> 1000 mg/L.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in compliance with federal, state, and local regulations. **Disposal instructions** 

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkiet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle. Dispose of in

compliance with federal, state, and local regulations.

# 14. TRANSPORTATION INFORMATION

General Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

IATA

Not applicable Proper shipping name Not applicable **Hazard class** 

Packaging exceptions None Identification number (UN) None N/A Packing group

Material name C9351 SERIES MSDS US Creation date Apr 30, 2003 Version number 5 4/6

### 15. REGULATORY INFORMATION

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. 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.

US federal regulations US TSCA 12(b): Contains tetrahydrofuran (CASRN 109-99-9), subject to export notification

requirements.

HMIS ratings Health: 1

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 1
Flammability: 2

Flammability: 2 Instability: 1

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely

hazardous substance

Section 311 hazardous

chemical

No

No

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

### 16. OTHER INFORMATION

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation

(29 CFR 1910.1200).

**Issue date** Jan 26 2007 10:57PM

Revision 5

Replaces sheet dated Feb 7 2006 12:01PM

**Disclaimer** This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard

Company. Data is the most current known to Hewlett-Packard Company 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.

MSDS sections updated 3. Hazards Identification: Chronic health effects

3. Hazards Identification: Carcinogenicity

15. Regulatory Information: Canadian regulations

Material name C9351 SERIES Creation date Apr 30, 2003 MSDS US

## **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