# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the

C9351 Series

preparation

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
 Jun 28, 2005

MSDS number 59855

### 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

Communication Standard).

## 3. HAZARDS IDENTIFICATION

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

**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 irritation.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Isopropyl Alcohol

Inhalation may cause drowsiness or dizziness.

Ingestion

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Material name C9351 SERIES Creation date Apr 30, 2003

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

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.

**Carcinogenicity** Carbon black has been classified by IARC as a Group 2B (possible human carcinogen)

None of the other ingredients have been classified as carcinogens according to EU, IARC,

MAK, NTP or OSHA.

4. FIRST AID MEASURES

First aid procedures

**Skin** Wash affected areas thoroughly with mild soap and water. 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.

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

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

5. FIRE FIGHTING MEASURES

**Flash point and method** 55.0 - 57.8 °C (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.

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

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

None known

Special firefighting procedures None es

None established.

6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions Do not let product enter drains. 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.

7. HANDLING AND STORAGE

**Handling** Avoid contact with skin, eyes and clothing.

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

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

Version number 4



### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

OSHA - Final PELs - Time Weighted Averages (TWAs)

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

ACGIH - Occupational Exposure Limits - TWAs

Isopropyl Alcohol 67-63-0 400 ppm TWA

OSHA - Final PELs - Time Weighted Averages (TWAs)

Carbon black 1333-86-4 3.5 mg/m3 TWA

ACGIH - Occupational Exposure Limits - TWAs

Carbon black 1333-86-4 3.5 mg/m3 TWA

Personal protective equipment

Use personal protective equipment to minimize exposure to skin and eve. General Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

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

## 9. PHYSICAL & CHEMICAL PROPERTIES

7.8 - 8.4Hq

Vapor pressure Not determined

**Boiling point** > 93.3 °C (> 200 °F) Soluble in water

Solubility

1 - 1.2 g/mL Specific gravity

**VOC** content < 3 %

Flash point 55.0 - 57.8 °C (131 - 136 °F)

**Viscosity** > 2 cp

> 1 (air = 1.0) Vapor density **Evaporation rate** Not determined Oxidizing properties Not determined

Color Black

# 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability Stable under recommended storage conditions.

Hazardous polymerization Will not occur.

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

carbon dioxide and/or low molecular weight hydrocarbons.

Incompatible with strong bases and oxidizing agents. Incompatibility

## 11. TOXICOLOGICAL INFORMATION

products

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.

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

Material name C9351 SERIES MSDS US Creation date Apr 30, 2003 Version number 4 3/5

## 12. ECOLOGICAL INFORMATION

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

## 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** 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. TRANSPORTATION INFORMATION

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

**IATA** 

Proper shipping name Not applicable Hazard class Not applicable

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

## 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.

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 Instability: 0

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance

No

Section 311 hazardous

chemical

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** Jun 28 2005 9:04PM

Revision 4

Replaces sheet dated Apr 14 2005 3:02AM

Material name C9351 SERIES
Creation date Apr 30, 2003



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 Explanation of abbreviations 3. Hazards Identification: Routes of exposure

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