

# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Identification of the

preparation

C9351 Series

**Product use** Inkjet printing

Version # 11

Revision date 12-Nov-2012
CAS # Mixture

**Company identification** Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

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# 2. 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 severe 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.

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

None known.

Carcinogenicity

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.

Material name: C9351 Series MSDS US

3. Composition / Information on Ingredients		
Components	CAS #	Percent
Water	7732-18-5	< 80
2-pyrrolidone	616-45-5	< 15
Carbon black	1333-86-4	< 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

67-63-0

< 2.5

Communication Standard).

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

# 4. First Aid Measures

First aid procedures

Isopropyl Alcohol

**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.

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

attention.

InhalationMove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

**General advice** No additional information

# 5. Fire Fighting Measures

Flammable properties None known.

**Extinguishing media** 

Suitable extinguishing

media

CO2, water, dry chemical, or foam

**Unsuitable extinguishing** 

media

None known.

Specific methods

**Hazardous combustion** 

products

None established. Refer to section 10.

# 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.

**Methods for containment**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.

Methods for cleaning up

Other information

Soak up with inert absorbent material.

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.

# 8. Exposure Controls / Personal Protection

## Occupational exposure limits

#### **ACGIH**

Components	Туре	Value	Form
Carbon black (1333-86-4)	TWA	3.0000 mg/m3	Inhalable fraction.
Isopropyl Alcohol (67-63-0)	BEI	40.0000 mg/l	
	STEL	400.0000 ppm	

Material name: C9351 Series MSDS US

**Value** Components **Type Form TWA** 200.0000 ppm U.S. - OSHA **Components Value Type** Isopropyl Alcohol (67-63-0) PEL 400.0000 ppm 980.0000 mg/m3

**U.S. - Tennessee** 

Components	Туре	Value	
Carbon black (1333-86-4)	TWA	3.5000 mg/m3	
Isopropyl Alcohol (67-63-0)	STEL	500.0000 ppm	
		1225.0000	
		mg/m3	
	TWA	400.0000 ppm	
		980.0000 mg/m3	

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

**Engineering controls** Use in a well ventilated area.

Personal protective equipment

**General hygiene** considerations

Handle in accordance with good industrial hygiene and safety practice.

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

# 9. Physical & Chemical Properties

**Appearance** Not available.

Color Black.

Not available. Odor **Odor threshold** Not available.

**Physical state** Liquid

**Form** Not available.

рH 7.8

**Melting point** Not available. Freezing point Not available. **Boiling point** 200 °F (93.3 °C)

Flash point 131 °F (55 °C) Pensky-Martens Closed Cup; No ignition, sustained combustion or flashing detected

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

**Evaporation rate** Not determined

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air, lower, % by volume

Not available.

Vapor pressure Not determined Not available. Vapor density

Specific gravity

**Relative density** Not available. Solubility (water) Soluble in water Not available. **Auto-ignition temperature Decomposition temperature** Not available.

Material name: C9351 Series MSDS US **Viscosity** 2 cp **Bulk density** 1 am/ml VOC Not available.

Other information For other VOC regulatory data/information see section 15.

# 10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions. **Incompatible materials** Incompatible with strong bases and oxidizing agents.

**Hazardous decomposition** 

products

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

dioxide and/or low molecular weight hydrocarbons.

**Possibility of hazardous** 

reactions

Will not occur.

# 11. Toxicological Information

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.

**ACGIH Carcinogens** 

Carbon black (CAS 1333-86-4) A3 Confirmed animal carcinogen with unknown relevance to

humans.

A4 Not classifiable as a human carcinogen. Isopropyl Alcohol (CAS 67-63-0)

IARC Monographs. Overall Evaluation of Carcinogenicity

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

IARC Monographs: Evidence of carcinogenicity in humans

Carbon black (CAS 1333-86-4) Inadequate data.

Serious eye damage/eye

irritation

Not available.

Symptoms and target organs **Target Organs (NIOSH)** 

> Carbon black (CAS 1333-86-4) Eyes

> > Respiratory system

Isopropyl Alcohol (CAS 67-63-0) Eyes

Respiratory system

**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. Ecological Information

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

Persistence and degradability Not available. **Partition coefficient** Not determined

## 13. Disposal Considerations

**Disposal instructions** 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.

#### 14. Transport Information

**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.

No ignition, sustained combustion or flashing detected using the sustained combustibility test

(method in US CFR173, Appendix H).

Material name: C9351 Series MSDS US

#### DOT

Not regulated as dangerous goods.

#### TATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

#### **RID**

Not regulated as dangerous goods.

# 15. Regulatory Information

**US TSCA** 12(b): Does not contain listed chemicals.

#### **DEA Exempt Chemical Mixtures Code Number**

Not regulated.

# Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

# Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

# **CERCLA (Superfund) reportable quantity**

None

## Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200

Yes

hazardous chemical

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

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

Section 302 extremely

No

hazardous substance

**Section 311 hazardous** 

No

chemical

## State regulations

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon black (CAS 1333-86-4) Listed: February 21, 2003 Carcinogenic.

# **US - New Jersey RTK - Substances: Listed substance**

Carbon black (CAS 1333-86-4) Listed. Isopropyl Alcohol (CAS 67-63-0) Listed.

#### **US. Massachusetts RTK - Substance List**

2-pyrrolidone (CAS 616-45-5) Carbon black (CAS 1333-86-4) Isopropyl Alcohol (CAS 67-63-0)

## **US. New Jersey Worker and Community Right-to-Know Act**

Not regulated.

#### **US. Pennsylvania RTK - Hazardous Substances**

2-pyrrolidone (CAS 616-45-5) Listed. Carbon black (CAS 1333-86-4) Listed. Isopropyl Alcohol (CAS 67-63-0) Listed.

## **US. Rhode Island RTK**

Carbon black (CAS 1333-86-4) Isopropyl Alcohol (CAS 67-63-0)

## **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.

Material name: C9351 Series MSDS US

#### Other information

Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).

16. Other Information

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

**HMIS**® ratings Health: 1

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 2 Instability: 0

**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.

Issue date 12-Nov-2012

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Alternate Trade Names

Manufacturer information Hewlett-Packard Company

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(Toll-free within the US) 1-800-457-4209

Material name: C9351 Series 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

Material name: C9351 Series MSDS US