



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation	CB271A
Use of the preparation	Inkjet printing
CAS #	Mixture
Company identification	Hewlett-Packard Luxembourg SCA 7a Rue Robert Stümper Luxembourg
Emergency telephone number	
Poison Information Centre telephone number	32 70 245 245
Hewlett-Packard health effects line	
(Toll-free within the US)	1-800-457-4209
(Direct)	1-503-494-7199
General information telephone number	
	352 49 92 61
(Toll-free within the US)	1-800-474-6836
(Direct)	1-208-323-2551
Email	hpcustomerinquiries@hp.com

2. HAZARDS IDENTIFICATION

Classification	Xi, Xn, R20/21, R36/38, R52/53
Acute health effects	Any potential hazards are presumed to be due to exposure to the components.
Skin contact	<i>Ethylene Glycol, Monobutyl Ether Acetate</i> Contact with skin may result in irritation. Harmful if absorbed through the skin.
Eye contact	<i>4-butyrolactone</i> Irritating to eyes. <i>Ethylene Glycol, Monobutyl Ether Acetate</i> Contact with eyes may result in irritation.
Inhalation	<i>4-butyrolactone</i> Inhalation may result in respiratory irritation. <i>Ethylene Glycol, Monobutyl Ether Acetate</i> Inhalation may result in respiratory irritation.
Ingestion	<i>4-butyrolactone</i> Harmful if swallowed. May depress the central nervous system. <i>Ethylene Glycol, Monobutyl Ether Acetate</i> Swallowing large amounts may cause digestive discomfort. Harmful if swallowed.
Potential health effects	
Routes of exposure	Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation Complete toxicity data are not available for this specific formulation.
Chronic health effects	None known.



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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.

Physical hazards

Not classified as a physical hazard.

Health hazards

Harmful by inhalation and in contact with skin. Irritating to eyes and skin. Prolonged exposure may cause chronic effects.

Environmental hazards

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Ethylene Glycol, Monobutyl Ether Acetate	112-07-2	75 - 90	203-933-3	Xn, R20/21, 52/53
4-butyrolactone	96-48-0	5 - 10	202-509-5	R22, 36
Carbon black	1333-86-4	< 7.5	435-640-3	
Composition comments	This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended. For the full text of the R phrases mentioned in this Section, see Section 16. Carbon black is present only in a bound form in this preparation.			

4. FIRST AID MEASURES

Inhalation	Remove to fresh air. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
Ingestion	If material is ingested, immediately contact a physician or poison control centre.

5. FIRE-FIGHTING MEASURES

Flash point and method	75 °C (167 °F); Pensky-Martens Closed Cup
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Extinguishing media which must not be used for safety reasons	high volume water jet
Unusual fire & explosion hazards	Combustible liquid. Many liquids are lighter than water. vapours may travel to a source of ignition and flash back.
Hazardous combustion products	Refer to section 10.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Remove all sources of ignition. Wear appropriate personal protective equipment.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

7. HANDLING AND STORAGE

Handling	Use spark-proof tools and explosion-proof equipment. Keep this product from heat, sparks, or open flame. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Keep away from sources of ignition - No smoking.
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Storage

Keep away from heat, sparks and flame. Keep away from oxidizers. Store at ambient temperature and atmospheric pressure. Keep away from excessive heat or cold.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Luxembourg

Components	CAS #	TWA	STEL
Ethylene Glycol, Monobutyl Ether Acetate	112-07-2	20 ppm133 mg/m ³	50 ppm333 mg/m ³

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Ethylene Glycol, Monobutyl Ether Acetate	112-07-2	20 ppm	Not established	Not established
Carbon black	1333-86-4	3.5 mg/m ³	Not established	Not established

Additional exposure data

Exposure limits have not been established for this product.

Personal protective equipment

General

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

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available
Physical state	Liquid.
Form	Not available
Colour	Black
Odour	Not available
Odour threshold	Not available
pH	Not determined
Boiling point	191 °C (375.8 °F)
Flash point	75 °C (167 °F); Pensky-Martens Closed Cup
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapour pressure	0.3
Relative density	Not available
Solubility in water	1.1 % w/w
Partition coefficient (n-octanol/water)	Not available
Viscosity	Not available
Vapour density	Not available



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Evaporation rate	Not determined
Melting point	Not available
Freezing point	Not available
Auto-ignition temperature	Not available
Specific gravity	1
VOC	> 90 % w/w

10. STABILITY AND REACTIVITY

Stability	Stable under normal storage conditions.
Materials to avoid	Not available
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Hazardous polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

Further information	This ink formulation has not been tested for toxicological effects. Refer to Section 3 for potential health effects and Section 4 for first aide measures.
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12. ECOLOGICAL INFORMATION

Aquatic toxicity	This product has not been tested for ecological effects.
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13. DISPOSAL CONSIDERATIONS

Disposal instructions	Dispose of in compliance with federal, state, and local regulations. Do not allow this material to drain into sewers/water supplies.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

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

15. REGULATORY INFORMATION

Labelling

Contains 4-butyrolactone, Carbon black, Ethylene Glycol, Monobutyl Ether Acetate



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Symbol(s)

Harmful

R-phrases(s)

R20/21 Harmful by inhalation and in contact with skin.
R36/38 Irritating to eyes and skin.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S23 Do not breathe vapour.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37 Wear suitable protective clothing and gloves.
S60 This material and its container must be disposed of as hazardous waste.

16. OTHER INFORMATION**Manufacturer information**

Hewlett-Packard Company
1000 NE Circle Boulevard
Corvallis, OR 97330-4239 US

List of relevant R phrases

R20/21 Harmful by inhalation and in contact with skin.
R36/38 Irritating to eyes and skin.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other information

This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

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

08-Feb-2008



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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