



SAFETY DATA SHEET

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

Identification of the substance/preparation 51650C

Use of the preparation Inkjet printing

Revision Date 29-Apr-2008

CAS # Mixture

Company identification Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN

Emergency telephone number

Poison Information Center 0207771 5307

Hewlett-Packard health effects line

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

(Direct) 1-503-494-7199

General information telephone number

1 344 36-0000

(Toll-free within the US) 1-800-474-6836

(Direct) 1-208-323-2551

Email hpcustomerinquiries@hp.com

2. HAZARDS IDENTIFICATION

Classification Xn, R22

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

Skin contact

Substituted triphenylmethane salt #1
Contact with skin may result in irritation.

Eye contact

Substituted triphenylmethane salt #1
Contact with eyes may result in irritation.

Ingestion

Diethylene glycol
Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

Ethylene glycol
Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

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 None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

Physical hazards Not classified as a physical hazard.



SAFETY DATA SHEET

Health hazards	Harmful if swallowed. Prolonged exposure may cause chronic effects.
Environmental hazards	Not classified as an environmental hazard.
Other information	This Cyan ink is classified for health effects according to EU Directive 1999/45/EC with Xn; R22.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Diethylene glycol	111-46-6	< 60	203-872-2	Xn, R22
Water	7732-18-5	> 30	231-791-2	
Substituted triphenylmethane salt #1	Proprietary	< 4	Proprietary	
Composition comments	This ink supply contains an aqueous ink formulation. 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.			

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

5. FIRE-FIGHTING MEASURES

Flash point and method	> 93.3 °C (> 200 °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	None known.
Unusual fire & explosion hazards	None known.
Hazardous combustion products	Refer to section 10.
Specific methods	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.
Containment procedures	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	Soak up with inert absorbent material.

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.



SAFETY DATA SHEET

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Denmark

Components	CAS #	TWA	Ceiling
Diethylene glycol	111-46-6	2.5 ppm11 mg/m3	Not established

Germany

Components	CAS #	TWA	MAK	Ceiling
Diethylene glycol	111-46-6	10 ppm44 mg/m3	10 ppm44 mg/m3	40 ppm176 mg/m3

Sweden

Components	CAS #	TLV (LLV)	STEL (STV)	Ceiling (CLV)
Diethylene glycol	111-46-6	10 ppm45 mg/m3	20 ppm90 mg/m3	Not established

Switzerland

Components	CAS #	TWA	STEL
Diethylene glycol	111-46-6	10 ppm44 mg/m3	40 ppm176 mg/m3

United Kingdom

Components	CAS #	TWA	STEL
Diethylene glycol	111-46-6	23 ppm101 mg/m3	69 ppm303 mg/m3

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available
Physical state	Liquid.
Form	Not available
Colour	Cyan
Odour	Not available
Odour threshold	Not available
pH	4 - 7
Boiling point	Not determined
Flash point	> 93.3 °C (> 200 °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 determined
Vapour pressure	Not determined



SAFETY DATA SHEET

Relative density	Not available
Solubility in water	Soluble in water
Partition coefficient (n-octanol/water)	Not available
Viscosity	> 2 cp
Vapour density	> 1 (Air = 1.0)
Evaporation rate	Not determined
Melting point	Not available
Freezing point	Not available
Auto-ignition temperature	Not available
Specific gravity	1 - 1.2
VOC	< 3 %

10. STABILITY AND REACTIVITY

Stability	Stable under recommended 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

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s
Water 7732-18-5 Oral LD50 Rat: >90 mL/kg

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 aid measures.

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>.

Waste from residues / unused products Not available

Contaminated packaging Not available

14. TRANSPORT INFORMATION

ADR

Not regulated as hazardous goods.

IMDG

Not regulated as hazardous goods.



SAFETY DATA SHEET

IATA

Proper shipping name	not applicable
Hazard class	not applicable
UN number	None.
Packing group	N/A
Packaging exceptions	None.

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

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.

Labelling

Contains Diethylene glycol, Substituted triphenylmethane salt #1, Water
Symbol(s)

Xn 
Harmful

R-phrases(s) R22 Harmful if swallowed.

S-phrases(s) S2 Keep out of the reach of children.
S13 Keep away from food, drink and animal feedingstuffs.
S20 When using do not eat or drink.
S46 If swallowed, seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

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

List of relevant R phrases R22 Harmful if swallowed.

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 29-Apr-2008

Revised sections 3. Hazards identification: Other information



SAFETY DATA SHEET

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