

1.0 Product and Company Identification Identification of the preparation: C6635A – No 35 Color Use of the preparation: Inkjet printing **Company Identification:** Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, Oregon 97330-4239 United States **Emergency telephone number** 1-800-457-4209 (USA and Canada) Hewlett-Packard Health Effects Line: 503-494-7199 (USA direct) Singapore: +001-800-332-13321 208-323-2551 (USA direct) General information telephone number: Local Contact Information Ireland Liffey Park Technology Campus Barnhall Road, Leixlip, Co. Kildare Phone: 01 6150000 **United Kingdom** Hewlett-Packard, Ltd. Cain Road. Amen Corner Bracknell, Berkshire, RG12 1HN

Local Contact Information:

Hazard Rating	NFPA/HMIS
Health	1
Flammability	1
Instability/Reactivity	0
Special	none

Phone: 1344 36-0000

2.0 Composition/Information on Hazardous Ingredients

This ink supply contains an aqueous ink formulation

Cyan Ink Formulation

Component/Substance	CAS Number	EU Number	% by	EU classification
			Weight	
2-Pyrrolidone	616-45-5	210-843-1	<10	Xi; R36/37/38
1,5-Pentanediol	111-29-5	203-854-4	<10	not classified
Ethyl Alkyldiol	confidential	confidential	<10	not classified



Metal nitrate	confidential	confidential	<8	O; Xi; R8-
				36/37/38
Substituted	confidential	confidential	<5	not classified
triphenylmethane salt				
Substituted	confidential	confidential	<5	Xn; N; R22-48/22-
phthalocyanine salt				51/53
Alkyldiol ethoxylate	confidential	confidential	<5	Xi; R36/38
Water	7732-18-5	231-791-2	> 50	not classified

Magenta Ink Formulation

Component/Substance	CAS Number	EU Number	% by	EU classification
			Weight	
2-Pyrrolidone	616-45-5	210-843-1	<10	Xi; R36/37/38
1,5-Pentanediol	111-29-5	203-854-4	<10	not classified
Ethyl Alkyldiol	confidential	confidential	<10	not classified
Metal nitrate	confidential	confidential	<8	O; Xi; R8-36/37/38
Alkyldiol ethoxylate	confidential	confidential	<5	Xi; R36/38
Azonaphthalenesulfonate	confidential	confidential	<5	Xi; R41-43-52/53
Water	7732-18-5	231-791-2	> 50	not classified

Yellow ink formulation

Component/Substance	CAS Number	EU Number	% by	EU classification
			Weight	
Ethyl alkyldiol	confidential	Confidential	<10	not classified
		I		
Metal nitrate	confidential	confidential	<10	O; Xi; R8-36/37/38
2-Pyrrolidone	616-45-5	210-843-1	<6	Xi; R36/37/38
Diethylene glycol	111-46-6	203-872-2	<6	Xn; R22
Arylazopyrazolesulfonate	confidential	confidential	<5	T; R25-48/22-52/53
salt				
Alkyldiol ethoxylate #1	confidential	confidential	<4	Xi; R38-41
Alkyldiol ethoxylate #2	confidential	confidential	<3	Xi; R36/38
Water	7732-18-5	231-791-2	> 50	not classified

3.0 Hazard Identification

The cyan ink is classified for environmental effects according to EU Directive 1999/45/EC with R52-53. The magenta and yellow inks are not classified according to EU Directive 1999/45/EC

3.1 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.

3.2 Acute Health Hazards Any potential hazards are presumed to be due to exposure to the components.

<u>2-Pyrrolidone</u>: Contact with eyes and skin may result in irritation. Inhalation may result in respiratory irritation. Ingestion may result in nausea, vomiting, and diarrhea.

<u>Metal nitrate</u>: Contact with eyes and skin may cause irritation. Inhalation may cause respiratory irritation.

Note: Nitrates and their derivatives can cause methemoglobinemia and result in respiratory depression. Primary indictors of prolonged exposure include shortness of breath, headaches, dizziness and cyanosis (bluish skin and lips).

<u>1,5-Pentanediol</u>: Contact with eyes and skin may cause irritation.

<u>Ethyl alkyldiol</u>: Contact with eyes and skin may cause mild irritation.

<u>Alkyldiol ethoxylate</u>: Contact with skin or eyes may cause irritation.

Cyan Ink

Substituted phthalocyanine salt: Harmful if swallowed.

Magenta Ink

<u>Azonaphthalenesulfonate:</u> Contact with eyes may cause serious damage. Contact with skin may cause an allergic reaction.

Yellow Ink

<u>Diethylene glycol</u>: Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

Arylazopyrazolesulfonate salt: Toxic if swallowed.

<u>Alkyldiol ethoxylate #1</u>: Contact with eyes may result in severe irritation and corneal injury. Contact with skin may result in severe irritation. Ingestion may cause irritation of mouth and throat, nausea, vomiting and diarrhea.

<u>Alkyldiol ethoxylate #2:</u> Contact with eyes and skin may result in severe irritation. Ingestion may cause irritation of mouth and throat, nausea, vomiting, and diarrhea.



3.3 Chronic Health Hazards	Cyan ink <u>Substituted phthalocyanine salt</u> : Prolonged ingestion exposure may cause serious damage to health.	
	Yellow ink <u>Arylazopyrazolesulfonate:</u> Prolonged ingestion exposure may cause serious damage to health.	
3.4 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.	

4.0 First Aid Measures

	Singapore: +001-800-332-13321 Remove to fresh air. If symptoms persist, consult a physician.
Ingestion:	If stomach upset persists, consult a physician.
	Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.
-	Do not rub eyes. Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists, consult a physician.

5.0 Fire Fighting Measures

Extinguishing media:	Water, dry chemical, carbon dioxide, foam
Unsuitable Extinguishing Media:	None known
Special Firefighting Procedures:	None known
Unusual fire and explosion hazards:	No special hazards known
Autoignition temperature:	Not determined
Flashpoint (method):	> 200° F, > 93.3° C (US EPA Method 1020)
Hazardous Combustion Products	Refer to section 10.

6.0 Accidental release measures



Environmental precautions:

Do not discharge into drains (See also Section 13, Disposal considerations)

7.0 Handling and Storage	
Storage Temperature:	59°F to 95°F; 15°C to 35°C
Handling and Storage precautions:	Keep out of the reach of children Keep away from extreme heat or cold.
Shelf Life:	1 year
Special Sensitivity:	None
8.0 Exposure control/ pers	onal protection
8.1 Exposure Limit Values	Yellow Ink <u>Diethylene glycol: G</u> ermany (TRGS 900) = 10 ppm; Austria, Sweden, Switzerland, TWA=10ppm;
8.2 Exposure Controls	Ireland, UK TWA=23ppm; Denmark TWA=2.5ppm Standard eye and skin protection for laboratory safety is recommended. Use in well ventilated area.
9.0 Physical and chemical	properties
рН:	Cyan (blue) ink: 7.5 – 8.2 Yellow ink: 6.0 – 6.6 Magenta (red) ink: 6.2 – 7.4
Boiling point:	Not Determined
Flash point:	$> 200^{\circ} F, > 93.3^{\circ} C$
Flammability:	US NFPA/HMIS Flammability rating = 1
Explosive properties:	Not applicable
Oxidizing properties:	Not applicable
Vapor Pressure:	Not applicable
Relative density:	Specific Gravity 1.0 to 1.2
Solubility:	Soluble in water
Partition coefficient:	Not determined
Viscosity:	Not determined
Vapor density:	>1 (air = 1.0)
Evaporation rate:	Not applicable
Other:	Not applicable
10.0 Stability and reactivity	

Stability:	Stable under normal storage conditions
Incompatibilities:	Strong oxidizers



Thermal decomposition Oxides of carbon/nitrogen/sulfur, water

products: Hazardous polymerization: None

11.0 Toxicological information

Refer to Section 3 for potential heath effects and Section 4 for first aid measures

Magenta ink

Eye irritation: Mild irritant in rabbit (OECD 405). Not classified as an eye irritant according to EU Directives 67/548/EEC and 1999/45/EC.

Skin sensitization: Non-sensitizer in guinea pig (OECD 406). Not classified as a skin sensitizer according to EU Directives 67/548/EEC and 1999/45/EC.

Yellow Ink

Acute oral toxicity: LD50 > 2500 mg/kg in rat (OECD 423). Not classified for acute oral toxicity according to EU Directives 67/548/EEC and 1999/45/EC.

12.0	Ecological	information
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Magenta Ink		
96 Hour LC50	LC50 < 400mg/L	Fathead minnow
Static Acute Toxicity	Survival (100mg/L) = 100% Survival (10mg/L) = 100%	Trout
Cyan Ink		
96 Hour LC50	LC50 < 400mg/L	Fathead minnow
Static Acute Toxicity	Survival (100mg/L) = 67% Survival (10mg/L) = 100%	Trout
Yellow Ink		
96 Hour LC50	LC50 < 400mg/L	Fathead minnow
Static Acute Toxicity	Survival (100mg/L) = 23% Survival (10mg/L) = 93%	Trout

13.0 Disposal considerations

Dispose in accordance with all applicable US Federal, state, local, and country laws.

14.0 Transportation information

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

UN Number:

Not applicable



Class: Proper Shipping Name: Packing Group: Marine Pollutant: Special Precautions: Not applicable Not applicable Not applicable Not listed None noted

15.0 Regulatory information

US EPA TSCA Inventory:	All ingredients are listed or exempt.
US EPA TSCA 12(b):	Does not contain listed chemicals.
EU Notification:	All ingredients are listed on EINECS and/or ELINCS or exempt.
EU Hazard Label (1999/45/EC):	Product may require a label according to EU Directive 1999/45/EC.

16.0 Other information

Date Prepared: HP-DMS Document Control Number: Revision Information:	July 12, 2002 09000de780229f6a-eng This document replaces all prior versions of the MSDS
EU Risk (R) Phrase definitions:	R8: Contact with combustible material may cause fire R22: Harmful if swallowed R25: Toxic if swallowed R41: Possible risks of irreversible effects R43: May cause sensitization by skin contact R36/38: Irritating to eyes and skin R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment R36/37/38: Irritating to eyes, respiratory system
Other Information:	and skin. This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC and USA OSHA Hazard Communications regulations (29CFR1910:1200).

DISCLAIMER: This Material Safety Data Sheet (MSDS) is provided without charge to customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation of this MSDS 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.