

1. Product and Company	Identification			
Identification of the preparation	51605R Rev B			
Product use	Inkjet printing 03			
Version #				
Revision date	07-Jan-2013			
CAS #	Mixture			
Company identification	Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501 Hewlett-Packard health effects line			
	(Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-202-222-2551			
	(Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com			
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	<i>2-pyrrolidone</i> Contact with skin may result in irritation. <i>Alkyldiol</i>			
	Contact with skin may result in irritation.			
Eye contact	<i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Alkyldiol</i> Contact with eyes may result in irritation.			
Inhalation	2-pyrrolidone Inhalation may result in respiratory irritation.			
	<i>Alkyldiol</i> Inhalation may result in respiratory irritation.			
Ingestion	<i>2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea. <i>arylazopyrazolesulfonate salt # 1</i>			
	Toxic if swallowed. <i>Ethylene glycol</i> 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	Arylazopyrazolesulfonate salt: Prolonged ingestion exposure may cause serious damage to health.			

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.

Components		CAS #	Percent
Water		7732-18-5	< 50
2-pyrrolidone		616-45-5	< 30
Ethylene glycol		107-21-1	< 25
Alkyldiol		Proprietary	< 7.5
arylazopyrazolesulfonate salt # 1		Proprietary	< 2.5
Composition comments	This ink supply contains an aqueous ink f This product has been evaluated using cr Communication Standard).		1200 (Hazard
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with least 15 minutes or until particles are ren		
Skin contact	Wash affected areas thoroughly with mild develops or persists.	d soap and water. Get medical a	ttention if irritation
Inhalation	Remove to fresh air. If symptoms persist	, get medical attention.	
Ingestion	If ingestion of a large amount does occur	r, seek medical attention.	
General advice	No additional information		
5. Fire Fighting Measures	5		
Flammable properties	None known.		
Extinguishing media			
Suitable extinguishing media	Dry chemical, CO2, water spray or regula	ar foam.	
Unsuitable extinguishing media	None known.		
Specific methods	None established.		
Hazardous combustion products	Refer to section 10.		
6. Accidental Release Me	asures		
Personal precautions	Wear appropriate personal protective equ	uipment.	
Environmental precautions	Do not let product enter drains. Do not fl	lush into surface water or sanita	ry sewer system.
Methods for containment	Dike the spilled material, where this is po or diatomaceous earth, commercial sorbe		ent such as dry clay, san
Methods for cleaning up	Soak up with inert absorbent material.		
Other information	Soak up with inert absorbent material. Sl sealed container. Dispose of in complianc section 13 Disposal considerations.		
7. Handling and Storage			
Handling	Avoid contact with skin, eyes and clothing	g.	
Storage	Keep out of the reach of children. Keep a	way from excessive heat or col	4

ACGIH				
Components		Туре	Value	Form
Ethylene glycol (107-21-1)		Ceiling	100.0000 mg/m3	Aerosol.
U.S Tennessee				
Components		Туре	Value	
Ethylene glycol (107-21-1)		Ceiling	50.0000 ppm 125.0000 mg/m3	
Exposure guidelines	Exposure limits hav	e not been established	for this product.	
Engineering controls	Use in a well ventila	ated area.		
Personal protective equipmer General hygiene considerations		ce with good industrial	hygiene and safety practice.	
General	Use personal protect	ctive equipment to mini	mize exposure to skin and e	ye.
9. Physical & Chemical P	roperties			
Appearance	- Not available.			
Color	Not available.			
Ddor	Not available.			
dor threshold	Not available.			
Physical state	Liquid			
orm	Not available.			
н	7			
lelting point	Not available.			
reezing point	Not available.			
oiling point	Not determined			
lash point	338 - 347 °F (170 -	175 °C) Closed Cup		
vaporation rate	Not determined			
lammability limits in air, pper, % by volume	Not available.			
Flammability limits in air, ower, % by volume	Not determined			
/apor pressure	Not determined			
apor density	Not available.			
pecific gravity	1			
elative density	Not available.			
olubility (water)	Soluble in water			
uto-ignition temperature	Not available.			
ecomposition temperature	Not available.			
iscosity	2 ср			
OC	Not available.			
Other information	For other VOC regu	latory data/information	see section 15.	

Chemical stabilityStable under recommended storage conditions.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decomposition
productsUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon
dioxide and/or low molecular weight hydrocarbons.

reactions	
11. Toxicological Information	ation
Oral toxicity	LD50/oral/rat >2500 mg/kg (OECD 401)
	Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
Carcinogenicity	
ACGIH Carcinogens	
Ethylene glycol (CAS 107-	-21-1) A4 Not classifiable as a human carcinogen.
Serious eye damage/eye irritation	Non - irritant in rabbit (OECD 405)
Symptoms and target organs	
Target Organs (NIOSH)	
Ethylene glycol (CAS 107-	-21-1) Central Nervous System
	Eyes
	Respiratory system
	Skin
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	on and a second s
Aquatic toxicity	LC50/96h/Fathead minnows => 750 mg/L
Persistence and degradability	Not available.
12 Dispessi Cansideratio	
13. Disposal Consideration	
Disposal instructions	Dispose of in compliance with federal, state, and local regulations.
14. Transport Informatio	n
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
DOT	
Not regulated as dangerous goods	
ΙΑΤΑ	
Not regulated as dangerous goods	
IMDG	
Not regulated as dangerous goods	
RID	
Not regulated as dangerous goods	
15. Regulatory Informat	
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.
DEA Exempt Chemical Mix	tures Code Number
Not regulated.	$t_{restion}$ (DEA) List 1.8.2 Even at Chemical Mixtures (21 CED 1210 12(s))
-	stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated. Drug Enforcement Adminis Chemical Code Number	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
Not listed.	
	t Notification (40 CFR 707, Subpt. D)
Not regulated. US EPCRA (SARA Title III)	Section 313 - Toxic Chemical: De minimis concentration
Ethylene glycol (CAS 107-	
	Section 313 - Toxic Chemical: Listed substance
Ethylene glycol (CAS 107-	-21-1) Listed.
CERCLA (Superfund) reportabl	e quantity
None	

29 CFR 1910.1200 hazardous chemical	No		
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 hazardous substance	No		
Section 311 hazardous chemical	No		
State regulations			
US - New Jersey Commun	ity RTK (EHS Survey): Listed substance		
Ethylene glycol (CAS 107			
-	bstances: Listed substance		
Ethylene glycol (CAS 107			
US. Massachusetts RTK -			
2-pyrrolidone (CAS 616- Ethylene glycol (CAS 107			
	nd Community Right-to-Know Act		
Ethylene glycol (CAS 107			
US. Pennsylvania RTK - H	azardous Substances		
2-pyrrolidone (CAS 616- Ethylene glycol (CAS 107 US. Rhode Island RTK			
Ethylene glycol (CAS 107	7-21-1)		
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.		
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: 1 Physical hazard: 0		
NFPA ratings	Health: 1 Flammability: 1 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	07-Jan-2013		
This data sheet contains changes from the previous version in section(s):	9. Physical & Chemical Properties: Other information 11. Toxicological Information: Further information 14. Transport Information: Further information		
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209		

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