

# SAFETY DATA SHEET

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

Identification of the preparation	CZ129Series
Synonym(s)	Matte Black ink
Use of the substance/preparation	Inkjet printing
Version No.	08
Revision date	20-Sep-2012
Company identification	Hewlett-Packard, Ltd. Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 1 344 36-0000
	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) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com Poison Information Center 0207771 5307
2 HAZAPDS IDENTIE	CATION

### 2. HAZARDS IDENTIFICATION

Emergency Overview	Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and diarrhea.
Acute health effects	
	Any potential hazards are presumed to be due to exposure to the components.
Skin contact	<i>1,5-pentanediol</i> Contact with skin may result in irritation.
	<i>2-pyrrolidone</i> Contact with skin may result in irritation.
	<i>Ethyl alkyldiol</i> Contact with skin may result in mild irritation.
Eye contact	<i>1,5-pentanediol</i> Contact with eyes may result in irritation.
	<i>2-pyrrolidone</i> Contact with eyes may result in irritation.
	<i>Ethyl alkyldiol</i> Contact with eyes may result in mild irritation.
Inhalation	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation.
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	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.
Other information	This black ink is not classified according to EU Directive 1999/45/EC.
Classification	Not classified.
Physical hazards	Not classified as a physical hazard.

Health hazards	Not classified as a health hazard.
Environmental hazards	Not classified as an environmental hazard.

1,5-pentanediol       111-29-5       < 2.5       203-854-4         2-pyrrolidone       616-45-5       < 15       210-483-1       Xi;R36/38         Ethyl alkyldiol       Proprietary       < 2.5       Proprietary         Water       7732-18-5       > 70       231-791-2         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       Move to fresh air. If symptoms persist, get medical attention.         Skin contact       Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.         Fye contact       Do not rub eyes. Immediately flush with large amounts of clean, warw water (low pressure) for al least 15 minutes or until particles are removed. If irritation persists get medical attention.         Stitable extinguishing media advice       No additional information         5. FIRE-FIGHTING MEASURES       Combustion generates toxic furmes of fluorides/fluorine compounds. hazards         None known.       None known.         Musual fre & explosion hazards       Refer to section 10. products         6. ACCIDENTAL RELEASE MEASURES       Do not let product enter drains. Do not flush into surface water or sanitary sever system. Dike the spilled material, where this is possible. Absorb with iner	3. COMPOSITION/INFO	CAS #	Percent	EC-No.	Classification
2-pyrolidone       616-45-5       < 15	•				Classification
Ethy alkyddiol       Proprietary       < 2.5	· ·				ViiD26/20
Vater         732:18-5         > 70         231:791-2           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         State of the full text of the R phrases mentioned in this Section, see Section 16.           5. For the full text of the R phrases mentioned in this Section, see Section 16.         Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.           5. FIRE-FIGHTING MEASURES         Do not rub eyes. Immediately flush with large amounts of clean, yarm water (low pressure) for a least 15 minutes or until particles are removed. If irritation persists get medical attention.           5. FIRE-FIGHTING MEASURES         Suitable extinguishing media which must not be used for safety reasons           Combustion generates toxic fumes of fluorides/fluorine compounds. hazards         None known.           Presonal precautions         Do not tep roduct enter drains. Do not flush into surface water or sanitary sever system. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry day, san or datomaceous earth, commentical sorbent, or recover using pumps.           Containment procedures         Do not tep roduct enter drains. Do not flush into surface water or cold. Store away from store or datomaceous earth, commentical sorbent, or recover using pumps.           Contatainment procedures         Do not let product					XI;K30/38
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This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/47/C, as amended. For the full text of the R phrases mentioned in this Section, see Section 16. <b>4. FIRST-AID MEASURES</b> Inhalation Move to fresh air. If symptoms persist, get medical attention. Skin contact Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention. Eye contact Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for a least 15 minutes or until particles are removed. If irritation persists get medical attention. In gestion If ingestion of a large amount does occur, seek medical attention. In gestion No additional information <b>5. FIRE-FIGHTING MEASURES</b> Suitable extinguishing media Weak now hown. Mone known. Mone known. More stabilished. Hazardous combustion Refer to section 10. products <b>6. ACCIDENTAL RELEASE MEASURES</b> Personal precautions Wear appropriate personal protective equipment. Environmental precautions Wear appropriate personal protective equipment. Environmental precautions On the spoiled material, showet nuis in subsorbent such as dry day, san or diatomaceous earth, commercial sorbents, or recover using punps. <b>6. ACCIDENTAL RELEASE MEASURES</b> Personal procedures Dake the spilled material, showet nut fielder al, state, and local regulations. See also section 13 Disposal considerations. <b>7. HANDLING AND STORAEE</b> Handling Avoid otnate: with skin, eyes and clothing. Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers. <b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b> Additional exposure data Exposure entrols <b>9. PHYSICAL AND CHEMICLA PROPERTIES</b> Appearance Not available. Physical state Liquid	Water	7732-18-5	> 70	231-791-2	
Inhalation       Move to fresh air. If symptoms persist, get medical attention.         Skin contact       Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.         Eye contact       Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for al least 15 minutes or until particles are removed. If irritation persists get medical attention.         General advice       No additional information         S. FIRE-FIGHTING MEASURES       Suitable extinguishing media         Suitable extinguishing media wich.       Coz, water, dry chemical, or foam         Kutinguishing media wich.       None known.         Musual fire & explosion       Combustion generates toxic fumes of fluorides/fluorine compounds.         hazardus       Some stabilished.         Refer to section 10.       Personal precautions         Personal precautions       Wear appropriate personal protective equipment.         Environmental precautions       Do not tab storbert material, where this is possible. Absorb with inert absorbert such as dry clay, sam or diatomaceous earth, compliance with federal, state, and local regulations. See also section 13 Disposal considerations.         7. HANDLING AND STORAGE       Handling         Handling       Avoid contact with skin, eyes and clothing.         Storage       Keep out of the reach of children. Keep away from excessive heat or cold. Store away from storagox/dizers.         S	Composition comments	This product has been ev 1999/45/EC, as amended	/aluated using crit 1.	eria specified in t	
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attention.       attention.         Eye contact       Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for al 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.         General advice       No additional information         5. FIRE-FIGHTING MEASURES       Suitable extinguishing media which more known.         Bysitable extinguishing media which must how and which must not be used for safety reasons       None known.         Byseific methods       None established.         Hazardous combustion products       Refer to section 10.         Products       Do not the policit epersonal protective equipment.         Do not the epilled material, where this is possible. Absorb with inert absorbent such as dry clay, san or diatomizerous environmental precautions       Do not the shift, commercial sorbents, or recover using pumps.         Other information       Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Disposal considerations.         7. HANDLING AND STORAGE       Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.         8. EXPOSURE CONTROLS/PERSONAL PROTECTION       Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.         8. EXPOSURE CONTROLS/PERSONAL PROTECTION       Use in a w	Inhalation	Move to fresh air. If symptoms persist, get medical attention.			
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General advice       No additional information         5. FIRE-FIGHTING MEASURES         Suitable extinguishing media       CO2, water, dry chemical, or foam         None known.       None known.         wust not be used for safety       Combustion generates toxic fumes of fluorides/fluorine compounds.         hazards       Combustion generates toxic fumes of fluorides/fluorine compounds.         Specific methods       None established.         Hazardous combustion products       Refer to section 10.         products       Do not let product enter drains. Do not flush into surface water or sanitary sewer system.         Onter information       Do not let product enter drains. Do not flush into surface water or sanitary sewer system.         Other information       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       Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.         8. EXPOSURE CONTROLS/PERSONAL PROTECTION       Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.         9. PHYSICAL AND CHEMICAL PROPERTIES       Appearance         9. PHYSICAL AND CHEMICAL PROPERTIES       Appearance         9. PHYSICAL AND CHEMICAL PROPERTIES       Appeara	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.		
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Suitable extinguishing media       CO2, water, dry chemical, or foam         Extinguishing media which must not be used for safety reasons       None known.         Inusual fire & explosion hazards       Combustion generates toxic fumes of fluorides/fluorine compounds.         Specific methods       None established.         Hazardous combustion products       Refer to section 10.         6. ACCIDENTAL RELEASE MEASURES       Wear appropriate personal protective equipment.         Do not let product enter drains. Do not flush into surface water or sanitary sewer system.       Do not let product enter drains. Do not flush into surface water or sanitary sewer system.         Containment procedures       Die 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.         Other information       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. Store away from strong oxidizers.         8. EXPOSURE CONTROLS/PERSONAL PROTECTION       Exposure forther sealed or this product.         Lysin a well ventilated area.       Use personal protective equipment to minimize exposur	General advice	No additional information	1		
Extinguishing media which must not be used for safety reasons       None known.         Unusual fire & explosion hazards       Combustion generates toxic fumes of fluorides/fluorine compounds.         Specific methods       None established.         Hazardous combustion products       Refer to section 10.         6. ACCIDENTAL RELEASE MEASURES       Wear appropriate personal protective equipment.         Do not let product enter drains. Do not flush into surface water or sanitary sewer system.       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.         Other information       Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other seeled container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.         7. HANDLING AND STORAGE       Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.         8. EXPOSURE CONTROLS/PERSONAL PROTECTION       Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.         8. enalte measures       Handle in accordance with good industrial hygiene and safety practices.         9. PHYSICAL AND CHEMICAL PROPERTIES       Appearance         Appearance       Not available.	5. FIRE-FIGHTING MEAS	SURES			
must not be used for safety         reasons         Unusual fire & explosion hazards       Combustion generates toxic fumes of fluorides/fluorine compounds.         Specific methods       None established.         Hazardous combustion products       Refer to section 10.         6. ACCIDENTAL RELEASE MEASURES       Description on the product on the product enter drains. Do not flush into surface water or sanitary sewer system.         Do not let product enter drains. Do not flush into surface water or sanitary sewer system.       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.         Other information       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       Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.         8. EXPOSURE CONTROLS/PERSONAL PROTECTION       Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.         8. General       Use presonal protective equipment to minimize exposure to skin and eye.         Hygiene measures       Handle in accordance with good industrial hygiene and safety practices.         9. PHYSICAL AND CHEMICAL PROPERTIES       Appearance         Appearance       Not availa	Suitable extinguishing media	CO2, water, dry chemica	l, or foam		
hazards       None established.         Specific methods       None established.         Hazardous combustion products       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.         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.         Other information       Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other seeled 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. Store away from strong oxidizers.         8. EXPOSURE CONTROLS/PERSONAL PROTECTION         Additional exposure data       Exposure limits have not been established for this product.         Exposure controls       Use personal protective equipment to minimize exposure to skin and eye.         Hygiene measures       Handle in accordance with good industrial hygiene and safety practices.         9. PHYSICAL AND CHEMICAL PROPERTIES       Appearanc	must not be used for safety	None known.			
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Exposure controlsUse in a well ventilated area.Occupational exposure controlsUse personal protective equipment to minimize exposure to skin and eye.GeneralUse personal protective equipment to minimize exposure to skin and eye.Hygiene measuresHandle in accordance with good industrial hygiene and safety practices.9. PHYSICAL AND CHEMISAL PROPERTIESAppearanceNot available.Physical stateLiquid	8. EXPOSURE CONTROLS	5/PERSONAL PROTE	CTION		
Occupational exposure controls       Use personal protective equipment to minimize exposure to skin and eye.         Hygiene measures       Handle in accordance with good industrial hygiene and safety practices.         9. PHYSICAL AND CHEMICAL PROPERTIES         Appearance       Not available.         Physical state       Liquid	Additional exposure data	Exposure limits have not	been established	for this product.	
GeneralUse personal protective equipment to minimize exposure to skin and eye.Hygiene measuresHandle in accordance with good industrial hygiene and safety practices.9. PHYSICAL AND CHEMICAL PROPERTIESAppearanceNot available.Physical stateLiquid	-		irea.		
Hygiene measures       Handle in accordance with good industrial hygiene and safety practices.         9. PHYSICAL AND CHEMICAL PROPERTIES         Appearance       Not available.         Physical state       Liquid			auinmant ta mini		drin and ave
9. PHYSICAL AND CHEMICAL PROPERTIES       Appearance       Not available.       Physical state     Liquid				-	
AppearanceNot available.Physical stateLiquid				nygiene and sale	ני אומנוונבס.
Physical state Liquid					
	-	-			

Colour	Black.
Odour	Not available.
Odour threshold	Not available.
рН	9.2
Boiling point	Not determined
Flash point	> 93.3 °C (> 200 °F) Pensky-Martens Closed Cup
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not determined
Vapour pressure	Not determined
Relative density	Not available.
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available
Viscosity	Not available.
Vapour density	Not available.
Evaporation rate	Not determined
Melting point	Not available.
Freezing point	Not available.
Auto-ignition temperature	Not determined
Specific gravity	1 - 1.1
VOC	< 240 g/l
10. STABILITY AND REA	CTIVITY
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. hydrogen fluoride, fluorinated hydrocarbons
Stability	Stable under recommended storage conditions.
Materials to avoid	Incompatible with strong bases and oxidizing agents.
Hazardous polymerisation	Will not occur.
<b>11. TOXICOLOGICAL IN</b>	FORMATION
Serious eve damage/eve	Not available.

Serious eye damage/eye irritation	Not available.
Further information	This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aide measures.

# **12. ECOLOGICAL INFORMATION**

**Aquatic toxicity** 

LC50/96h/Fathead minnows => 750 mg/L

# **13. DISPOSAL CONSIDERATIONS**

Disposal instructionsDo not allow this material to drain into sewers/water supplies.<br/>Dispose of waste material according to Local, State, Federal, and Provincial Environmental<br/>Regulations.HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling<br/>of HP original inkjet and LaserJet supplies. For more information and to determine if this service<br/>is available in your location, please visit http://www.hp.com/recycle.

## **14. TRANSPORT INFORMATION**

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

#### ADR

Not regulated as dangerous goods.

**Further information** 

IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

<b>15. REGULATORY INFOR</b>	RMATION	
Labeling		
Contains	1,5-pentanediol, 2-pyrrolidone, Ethyl alkyldiol, Water	
EC label	This product does not require a label according to EU Directive 1999/45/EC.	
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.	
Other information	Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Counce concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Counce 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 date Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health a environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments)	
16. OTHER INFORMATIO	DN	
Wording of the R-phrases in sections 2 and 3	R36/38 Irritating to eyes and skin.	
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-Packarc 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.	

**REGULATORY INFORMATION: Other information** 

20-Sep-2012

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**Issue date** 

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

## **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: <value></value>	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds