



MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

Product name CH189Series

Recommended use of the chemical and restrictions on use

Intended use Inkjet printing.

Company identification Hewlett-Packard Japan, Ltd.
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HP Customer Care Line
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Email: hpcustomer.inquiries@hp.com
Poison Information Centre 0120-50-3024

2. Hazards identification

Physical hazards Not classified as a physical hazard.

Health hazards Not classified as a health hazard.

Environmental hazards Not classified as an environmental hazard.

3. Composition/information on ingredients

Substance or mixture Mixture

Components	CAS #	Percent
Diethylene glycol	111-46-6	< 7.5
Polyethylene glycol	25322-68-3	< 7.5
Glycerol Ethoxylate	31694-55-0	< 5
Pigment	Proprietary	< 2.5
Isothiazolone DF35	26172-55-4	< 1
Styrene/Acrylic Polymer	Proprietary	< 1
Triethanolamine	102-71-6	< 1
Wetting Agent PG	Proprietary	< 1

Synonym(s) ColorSpan 0900768-005

4. First aid measures

If inhaled In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical attention, if needed.

If on skin In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water.
Wash clothing separately before reuse.

If in eyes In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops or persists.

If swallowed Rinse mouth out with water. Give several glasses of water. Do not induce vomiting. If symptoms persist, get medical attention.

Most important symptoms and effects No data available

5. Fire-fighting measures

Flash point	Not flammable
Extinguishing media	Use any media suitable for the surrounding fires.
Extinguishing media to avoid	None.
Special fire fighting procedures	Wear suitable protective equipment.
Protection of fire-fighters	No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures	Avoid contact with skin. Do not touch or walk through spilled material. Use personal protective equipment to minimize exposure to skin and eye.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Clean-up methods and materials and containment measures	Clean-up methods - small spillage

7. Handling and storage

Handling

Technical measures	Not available.
Local and general ventilation	Not available.
Precautions	Not available.
Safe handling advice	Avoid contact with skin, eyes and clothing.

Storage

Technical measures	Keep out of the reach of children. Keep away from excessive heat or cold.
Suitable storage conditions	Not available.
Incompatible products	No data.
Safe packaging materials	Not available.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m ³

Recommended monitoring procedures

Additional exposure data Not available.

Engineering measures Provide adequate ventilation.

Personal protective equipment

Respiratory protection Under normal conditions, respirator is not normally required. Provide adequate ventilation.

Hand protection Not available.

Eye protection Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

Skin and body protection Use of butyl rubber or nitrile gloves is recommended. Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.

Hygiene measures

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

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

Laundry contaminated clothing before reuse.

Personal protective equipment

General Eye wash fountain and emergency showers are recommended.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Aqueous solution.
Color	Cyan
Odor	Not significant.
Odor threshold	No information available.
pH	7 - 9
Melting point/Freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	Not flammable
Auto-ignition temperature	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Specific gravity	Not available.
Solubility	Soluble
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Other data	
Chemical family	Water/Glycol/Dye Blend
VOC (Weight %)	< 115 g/L

10. Stability and reactivity

Stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid high temperatures.
Incompatible materials	None.
Hazardous decomposition products	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

11. Toxicological information

General information Not available.

Information on likely routes of exposure

Ingestion Not available.

Inhalation Not available.

Skin contact Not available.

Eye contact Not available.

Symptoms Not available.

Acute toxicity

Components	Species	Test Results
Diethylene glycol (CAS 111-46-6)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	11890 mg/kg
<i>Oral</i>		
LD50	Cat	3300 mg/kg

Components	Species	Test Results
	Dog	9000 mg/kg
	Guinea pig	8700 mg/kg
		14 g/kg
	Mouse	23700 mg/kg
		13.3 g/kg
	Rabbit	26.9 g/kg
	Rat	12565 mg/kg
		15.6 g/kg
<i>Other</i>		
LD50	Mouse	22500 mg/kg
		9.6 g/kg
	Rabbit	2000 mg/kg
	Rat	7700 mg/kg
		7.7 g/kg
Triethanolamine (CAS 102-71-6)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 20000 mg/kg
<i>Oral</i>		
LD50	Guinea pig	5300 mg/kg
	Rat	8 g/kg
<i>Other</i>		
LD50	Mouse	1450 mg/kg
Carcinogenicity	No data available.	
Specific target organ toxicity - single exposure	No data available.	
Specific target organ toxicity - repeated exposure	No data available.	
Other information	Complete toxicity data are not available for this specific formulation	

12. Ecological information

Ecotoxicological data			
Components		Species	Test Results
Diethylene glycol (CAS 111-46-6)			
Aquatic			
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>)	> 32000 mg/l, 96 hours
Polyethylene glycol (CAS 25322-68-3)			
Aquatic			
Fish	LC50	Atlantic salmon (<i>Salmo salar</i>)	> 1000 mg/l, 96 hours
Triethanolamine (CAS 102-71-6)			
Aquatic			
Crustacea	EC50	Water flea (<i>Ceriodaphnia dubia</i>)	565.2 - 658.3 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	10610 - 13010 mg/l, 96 hours
Ecotoxicity	None known.		
Aquatic toxicity	No information available.		
Bioaccumulation			
Bioaccumulative potential			
Octanol/water partition coefficient log Kow			
Triethanolamine			-1

Mobility in soil No data available.

13. Disposal considerations

Contaminated packaging No special precautions.

Local disposal regulations Dispose of in compliance with federal, state, and local regulations.

14. Transport information

International regulations

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

15. Regulatory information

Industrial Safety and Health Act

Specified substances regulation

Class 1 designated chemical substances

Not regulated.

Class 2 designated chemical substances

Not regulated.

Class 3 designated chemical substances

Not regulated.

Organic solvent regulation

Class 1 organic solvents

Not regulated.

Class 2 organic solvents

Not regulated.

Class 3 organic solvents

Not regulated.

Notifiable substances

Not regulated.

Labeling substances

Not regulated.

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

Not regulated.

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Fire Service Act Not regulated.

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule Not regulated.

Air Law, Enforcement Rule Not regulated.

Explosives Control Act
Not regulated.

High Pressure Gas Safety Act
Not regulated.

Act on Prevention of Marine Pollution and Maritime Disaster

DIETHYLENE GLYCOL	Category: Z
POLYETHYLENE GLYCOL	Category: Z
GLYCEROL, PROPOXYLATED/ETHOXYLATED MIXTURE	Category: Z
GLYCEROL, PROPOXYLATED/ETHOXYLATED MIXTURE	Category: Other Substances

Waste Management and Public Cleansing Act

Not regulated.

16. Other information

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.

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Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US Product Information 1-800-925-0563

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