



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Identification of the preparation** CH649Series  
**Synonym(s)** Maintenance Kit  
**Product use** Inkjet printing  
**Version #** 05  
**Revision date** 24-Aug-2011  
**CAS #** Mixture  
**Company identification** Hewlett-Packard Company  
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United States  
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## 2. Hazards Identification

### Acute health effects

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

**Skin contact** Unlikely to cause skin irritation.  
**Eye contact** Unlikely to cause irritation under normal use conditions.  
**Inhalation** Not an applicable route of entry for intended use.  
**Ingestion** Ingestion is not expected to be a primary route of exposure for this product under normal use conditions.

### Potential health effects

**Routes of exposure** Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation  
**Chronic health effects** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Vapors irritating to eyes and respiratory tract. Inhalation of mists/vapors of this product may cause dizziness, nausea, and respiratory tract congestion.  
**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.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Polyethylene glycol	25322-68-3	80 - 90
Water	7732-18-5	> 10

**Composition comments** This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

## 4. First Aid Measures

### First aid procedures

**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.  
**Skin contact** Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

**Inhalation** Remove to fresh air. If symptoms persist, get medical attention.  
**Ingestion** If ingestion of a large amount does occur, seek medical attention.

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## 5. Fire Fighting Measures

**Flammable properties** None known.  
**Extinguishing media**  
**Suitable extinguishing media** Dry chemical, foam, carbon dioxide.  
**Unsuitable extinguishing media** None known.  
**Specific methods** Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity.  
**Hazardous combustion products** Refer to section 10.

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## 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.  
**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.

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## 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.

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## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### U.S. - WEEL

Components	Type	Value	Form
Polyethylene glycol (25322-68-3)	TWA	10.0000 mg/m3	Particulate.

**Exposure guidelines** Exposure limits have not been established for this product.  
**Engineering controls** Use in a well ventilated area.  
**Personal protective equipment**  
**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.  
**General** Use personal protective equipment to minimize exposure to skin and eye.

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## 9. Physical & Chemical Properties

**Appearance** Clear liquid  
**Color** Clear.  
**Odor** Not available.  
**Odor threshold** Not available.  
**Physical state** Liquid  
**Form** Not available.  
**pH** Not Applicable  
**Melting point** Not available.  
**Freezing point** Not available.  
**Boiling point** 392 °F (200 °C)  
**Flash point** 424.4 °F (218 °C)  
**Evaporation rate** Not determined  
**Flammability limits in air, upper, % by volume** Not available.

<b>Flammability limits in air, lower, % by volume</b>	Not determined
<b>Vapor pressure</b>	0.01 mm Hg @ 20°C
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	1
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Soluble in water
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>VOC</b>	< 884 g/L
<b>Other information</b>	VOC content (less water, less exempt compounds) = < 1000 g/L (U.S. requirement, not for emissions)

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## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Incompatible materials</b>	Incompatible with strong bases and oxidizing agents.
<b>Hazardous decomposition products</b>	aldehydes
<b>Possibility of hazardous reactions</b>	Will not occur.

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## 11. Toxicological Information

<b>Oral toxicity</b>	LD50/oral/rat >31700 mg/kg  Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
<b>Serious eye damage/eye irritation</b>	Mild irritant in rabbit  Not classified as an irritant, according to OSHA Hazard Communication Standard (HCS).
<b>Further information</b>	Refer to Section 2 for potential health effects and Section 4 for first aid measures.

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## 12. Ecological Information

<b>Aquatic toxicity</b>	LC50/48h/daphnia =>10000 mg/L
<b>Persistence and degradability</b>	Not available.

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## 13. Disposal Considerations

<b>Disposal instructions</b>	Dispose of in compliance with federal, state, and local regulations.
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## 14. Transport Information

<b>Further information</b>	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
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### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

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## 15. Regulatory Information

<b>US federal regulations</b>	US EPA TSCA 12(b): Does not contain listed chemicals.
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### CERCLA (Superfund) reportable quantity

None

### Occupational Safety and Health Administration (OSHA)

<b>29 CFR 1910.1200 hazardous chemical</b>	No
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## Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard categories</b>	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
<b>Section 302 extremely hazardous substance</b>	No
<b>Section 311 hazardous chemical</b>	No
<b>Regulatory information</b>	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/NDL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

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## 16. Other Information

<b>Other information</b>	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
<b>HMIS® ratings</b>	Health: 1 Flammability: 1 Physical hazard: 0
<b>NFPA ratings</b>	Health: 1 Flammability: 1 Instability: 0
<b>Disclaimer</b>	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.
<b>Issue date</b>	24-Aug-2011
<b>This data sheet contains changes from the previous version in section(s):</b>	Product and Company Identification: Alternate Trade Names 9. Physical & Chemical Properties: Appearance 9. Physical & Chemical Properties: Color 9. Physical & Chemical Properties: Other information Regulatory Information: United States
<b>Manufacturer information</b>	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

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds