



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the preparation CH644Series

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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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.

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.

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.

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.

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.

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.

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

10. Chemical Stability & Reactivity Information

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

11. Toxicological Information

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

12. Ecological Information

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

13. Disposal Considerations

Disposal instructions	Dispose of in compliance with federal, state, and local regulations.
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14. Transport Information

Further information	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.

15. Regulatory Information

US federal regulations	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)

29 CFR 1910.1200 hazardous chemical	No
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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

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 24-Aug-2011

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

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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