MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the preparation
CH145Series

Synonym(s)
HP SC100 Cleaning Solution

Product use
Inkjet printing

Version #
03

Revision date
03-May-2012

CAS #
Mixture

Company identification
Hewlett-Packard Company
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Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501

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(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

2. Hazards Identification

Emergency overview
Harmful by inhalation and in contact with skin. Contact with skin and eyes may result in irritation. Inhalation may result in respiratory irritation.

Acute health effects

Skin contact
Avoid contact with skin.
Harmful in contact with skin.

Eye contact
Avoid contact with eyes.
Contact with eyes may result in irritation.

Inhalation
Avoid breathing vapors or mists of this product.
Harmful if inhaled.

Ingestion
May be harmful if swallowed.

Potential health effects

Routes of exposure
Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation

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.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethyl acetate</td>
<td>112-07-2</td>
<td>100</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

Eye contact
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 immediately.

Skin contact
In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse.
Get medical attention, if needed.
Inhalation
Move person to fresh air immediately. If symptoms persist, get immediate medical attention.

Ingestion
Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire Fighting Measures

Extinguishing media
For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

Protection of firefighters
Move containers from fire area if you can do it without risk. Avoid runoff into storm sewers and ditches which lead to waterways.

Special protective equipment for fire-fighters
Firefighters should wear full protective clothing including self contained breathing apparatus.

6. Accidental Release Measures

Personal precautions
Avoid contact with skin. Avoid inhalation of vapors or mists. Do not touch or walk through spilled material. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.

Environmental precautions
Do not flush into surface water or sanitary sewer system.

Methods for cleaning up
Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Other information
Dispose of in compliance with federal, state, and local regulations.

7. Handling and Storage

Handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Wear personal protective equipment.

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

8. Exposure Controls / Personal Protection

Occupational exposure limits (ACGIH)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethyl acetate (112-07-2)</td>
<td>TWA</td>
<td>20.0000 ppm</td>
</tr>
</tbody>
</table>

Personal protective equipment

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

Skin protection
Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.

Respiratory protection
Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

General hygiene considerations
Do not get this material in contact with skin. 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. Launder contaminated clothing before reuse.

9. Physical & Chemical Properties

Appearance
Not available.

Color
Clear.

Odor
Solvent.

Odor threshold
Not available.
| Physical state | Liquid |
| Form | Liquid. |
| pH | Not available. |
| Melting point | Not available. |
| Freezing point | -83.2 °F (-64 °C) |
| Boiling point | 377.6 °F (192 °C) |
| Flash point | 165.2 °F (74 °C) Tag Closed Cup |
| Evaporation rate | 0.04 |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Vapor pressure | 0.4 hPa @ 20°C |
| Vapor density | Not available. |
| Specific gravity | Not available. |
| Relative density | Not available. |
| Solubility (water) | 2 % |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Molecular weight | 160 |
| VOC | < 940 g/L |
| Other information | For other VOC regulatory data/information see section 15. |

### 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable at normal conditions.

**Conditions to avoid** Heat, flames and sparks.

**Incompatible materials** This product may react with strong oxidizing agents. Reacts with air to form peroxides. oxidizing agents

**Hazardous decomposition products** peroxides.

**Possibility of hazardous reactions** None known.

### 11. Toxicological Information

**Carcinogenicity**

**ACGIH Carcinogens**

2-Butoxyethyl acetate (CAS 112-07-2) A3 Confirmed animal carcinogen with unknown relevance to humans.

**Serious eye damage/eye irritation** Not available.

**Symptoms and target organs**

**Target Organs (NIOSH)**

2-Butoxyethyl acetate (CAS 112-07-2) Blood

Central Nervous System

Eyes

Hemato system

Kidneys

Liver

Lymphoid system

Respiratory system

Skin

**Further information** Complete toxicity data are not available for this specific formulation

### 12. Ecological Information

**Ecotoxicity** No information available.
Aquatic toxicity
No information available.

Persistence and degradability
Not available.

13. Disposal Considerations
Disposal instructions
Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.

14. Transport Information
DOT
Basic shipping requirements:
UN number NA1993
Proper shipping name Combustible Liquid n.o.s. (2-Butoxyethyl Acetate) - not regulated in quantities less than 119 gallons.
Hazard class Combustible
Packing group III
Additional information: 128

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 Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

CERCLA (Superfund) reportable quantity
None

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No
Section 302 extremely hazardous substance No
Section 311 hazardous chemical Yes

Regulatory information
Notified according to EU Regulations.

Other information

Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).

VOC content (less water, less exempt compounds) = < 940 g/L (U.S. requirement, not for emissions)
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: 2
Physical hazard: 0
Personal protection: B

NFPA ratings
Health: 1
Flammability: 2
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
03-May-2012

This data sheet contains changes from the previous version in section(s):
This document has undergone significant changes and should be reviewed in its entirety.

Manufacturer information
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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