



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CN626Series
Version # 02
Issue date 18-Feb-2013
Revision date 08-Jun-2013
Supersedes date 18-Feb-2013
CAS # Mixture
Product use Inkjet printing
Company identification Hewlett-Packard Company
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2. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation.
Other hazards 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

3. Composition / Information on Ingredients

| Hazardous components | CAS # | Percent |
|--------------------------|-------------|---------|
| 2-pyrrolidone | 616-45-5 | < 10 |
| alkyldiol | Proprietary | < 5 |
| Pigment Blue | Proprietary | < 5 |
| Non-hazardous components | CAS # | Percent |
| Water | 7732-18-5 | > 70 |
| Ethyl alkyldiol | Proprietary | < 15 |

Composition comments This ink supply contains an aqueous ink formulation.
This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First Aid Measures

General advice Potential routes of overexposure to this product are skin and eye contact
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. If irritation persists get medical attention.
Inhalation Move 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**

CO2, water, dry chemical, or foam

Unsuitable extinguishing media

None known.

Fire fighting equipment/instructions

Not available.

Specific methods

Wear self contained breathing apparatus for fire fighting if necessary. Use a water spray to cool fully closed containers.

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.

Methods for cleaning up

Soak up with inert absorbent material.

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****US. ACGIH Threshold Limit Values****Components****Type****Value****Form**

Glycerol (CAS Proprietary)

TWA

10 mg/m3

Mist.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**Components****Type****Value****Form**

Glycerol (CAS Proprietary)

PEL

5 mg/m3

Respirable fraction.

15 mg/m3

Total dust.

US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A**Components****Type****Value****Form**

Glycerol (CAS Proprietary)

TWA

5 mg/m3

Respirable fraction and dust or fume.

10 mg/m3

Total dust and mist.

Exposure guidelines

Exposure limits have not been established for this product.

Engineering controls

Use in a well ventilated area.

Personal protective equipment**General**

Use personal protective equipment to minimize exposure to skin and eye.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties**Appearance**

Liquid.

Physical state

Liquid.

Form

Not available.

Color

Cyan

Odor

Not available.

| | |
|-------------------------------------|---|
| pH | 9 - 10 |
| Vapor pressure | Not determined |
| Boiling point | Not determined |
| Melting point/Freezing point | Not available. |
| Solubility (water) | Soluble in water |
| Specific gravity | Not available. |
| Flash point | >= 230.00 °F (>= 110.00 °C) Pinsky-Martens Closed Cup |
| VOC | < 96.017 g/l |
| Other information | For other VOC regulatory data/information see Section 15. |

10. Chemical Stability & Reactivity Information

| | |
|---|--|
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | No information available |
| Incompatible materials | Incompatible with strong bases and oxidizing agents. |
| Hazardous decomposition products | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |
| Possibility of hazardous reactions | Will not occur. |

11. Toxicological Information

Toxicological data

| Components | Species | Test Results |
|--|---|--------------|
| 2-pyrrolidone (CAS 616-45-5) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Guinea pig | 6500 mg/kg |
| | Rat | 6500 mg/kg |
| Serious eye damage/eye irritation | Not available. | |
| Further information | Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures. | |

12. Ecological Information

Aquatic toxicity LC50/96h/Fathead minnows =< 750 mg/L

Ecotoxicological data

| Components | Species | Test Results |
|------------------------------|---------|---|
| 2-pyrrolidone (CAS 616-45-5) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) |
| | | 13.21 mg/l, 48 hours |
| alkyldiol (CAS Proprietary) | | |
| Aquatic | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) |
| | | 51000 - 57000 mg/l, 96 hours |
| Crustacea | EC50 | Daphnia |
| | | 102, 48 Hours |
| Fish | LC50 | Fish |
| | | 1000, 96 Hours |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Daphnia magna) |
| | | 10330 - 16360 mg/l, 48 hours |
| Fish | LC50 | Bleak (Alburnus alburnus) |
| | | > 10000 mg/l, 96 hours |

Persistence and degradability Not available.

Bioaccumulation / Accumulation

Bioaccumulative potential**Octanol/water partition coefficient log Kow**

| | |
|---------------|-------|
| 2-pyrrolidone | -0.85 |
| alkyldiol | -1.76 |

Partition coefficient

| | |
|---------------|-------|
| 2-pyrrolidone | -0.85 |
| alkyldiol | -1.76 |

13. Disposal Considerations**Disposal instructions**

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

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit <http://www.hp.com/recycle>.

14. Transport Information**DOT**

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

Further information

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

15. Regulatory Information**US federal regulations**

US TSCA 12(b): Does not contain listed chemicals.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity

None

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

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

| | |
|---|---|
| Other information | VOC content (less water, less exempt compounds) = <411 g/L (U.S. requirement, not for emissions) |
| | VOC data based on formulation (Organic compounds minus solids) |
| Other regulations | 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. |
| State regulations | |
| US - New Jersey RTK - Substances: Listed substance | |
| alkyldiol (CAS Proprietary) | Listed. |
| US. Massachusetts RTK - Substance List | |
| 2-pyrrolidone (CAS 616-45-5) | |
| alkyldiol (CAS Proprietary) | |
| US. Pennsylvania RTK - Hazardous Substances | |
| 2-pyrrolidone (CAS 616-45-5) | Listed. |
| alkyldiol (CAS Proprietary) | Listed. |
| US. Rhode Island RTK | |
| alkyldiol (CAS Proprietary) | |

16. Other Information

| | |
|--|---|
| 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. |
| Other information | This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200). |
| Issue date | 18-Feb-2013 |
| This data sheet contains changes from the previous version in section(s): | 1. Product and Company Identification: Product and Company Identification Hazards Identification: Other hazards 4. First Aid Measures: General advice 9. Physical & Chemical Properties: Appearance 9. Physical & Chemical Properties: Other information |
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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 |