



MATERIAL SAFETY DATA SHEET

1. Product and company identification

Product name C9442 Series
Recommended use Inkjet printing
Limitations on use Not available.
Issue date 12-Mar-2015
Revision date 01-Sep-2015
Version # 02
Company identification Limited Liability Company HP Inc
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2. Hazards identification

Hazard classification
Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements
Symbols None.
Signal word None.

Hazard statement Not available.

Precautionary statement
Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

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

Substance or mixture Mixture

| Chemical property | CAS Number | Concentration (%) |
|-------------------|-------------|-------------------|
| Water | 7732-18-5 | 70-80 |
| 2-pyrrolidone | 616-45-5 | <10 |
| Diethylene glycol | 111-46-6 | <7.5 |
| Alkyldiol | Proprietary | <5 |
| Yellow pigment | Proprietary | <5 |

Composition comments This ink supply contains an aqueous ink formulation.

4. First aid measures

First aid measures for different exposure routes

Inhalation Move to fresh air. If symptoms persist, get medical attention.

| | |
|--|---|
| Ingestion | If material is ingested, immediately contact a physician or poison control center. |
| Skin contact | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention. |
| 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. |
| Most important symptoms and effects | Not available. |
| Notes to physician | Not available. |

5. Fire-fighting measures

| | |
|--|--|
| Flash point | > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup |
| General fire hazards | Not available. |
| Suitable extinguishing media | CO ₂ , water, dry chemical, or foam |
| Unsuitable extinguishing media | None known. |
| Specific hazards during fire fighting | None. |
| Special fire fighting procedures | None. |
| Personal protective equipment for fire-fighting | None. |
| Specific methods | None established. |

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. |
| Clean-up methods and materials and containment measures | Not available. |

7. Handling and storage

| | |
|-------------------------------|--|
| Handling | |
| 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. |
| Incompatible materials | Not available. |

8. Exposure controls/personal protection

Occupational exposure limits

Russian Federation. Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

| Components | Type | Value | Form |
|----------------------------------|---------|----------------------|--------------------|
| 2-pyrrolidone (CAS 616-45-5) | Ceiling | 10 mg/m ³ | Aerosol. |
| Diethylene glycol (CAS 111-46-6) | Ceiling | 10 mg/m ³ | Vapor and aerosol. |

Personal protective equipment

| | |
|--------------------------------------|---|
| General | Use personal protective equipment to minimize exposure to skin and eye. |
| Engineering measures | Use in a well ventilated area. |
| Personal protective equipment | |
| Respiratory protection | For use other than intended use (such as in the event of a large spill), goggles and respirators may be required. |
| Hand protection | Not available. |
| Eye protection | Not required under intended use. |
| Skin and body protection | Protected gloves not required under intended use. |

9. Physical and chemical properties

Appearance

| | |
|-----------------------|----------------|
| Physical state | Not available. |
|-----------------------|----------------|

| | |
|---|--|
| Color | Yellow |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | 9.2 |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not determined |
| Flash point | > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup |
| Heat of combustion | Not available. |
| Auto-ignition temperature | Not determined |
| Decomposition temperature | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not determined |
| Flammability limit - upper (%) | Not available. |
| Vapor pressure | Not determined |
| Viscosity | Not available. |
| Solubility | Soluble in water |
| Partition coefficient (n-octanol/water) | Not available. |
| Other data | |
| Evaporation rate | Not determined |
| Oxidizing properties | Not determined |
| VOC (Weight %) | < 204 g/l |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | Will not occur. |
| Conditions to avoid | None. |
| Incompatible materials | Incompatible with strong bases and oxidizing agents. |
| Hazardous decomposition products | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. aldehydes, ketones, hydrogen fluoride, fluorinated hydrocarbons |

11. Toxicological information

| | |
|--|---|
| Acute toxicity | Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | Based on available data, the classification criteria are not met. |
| Respiratory sensitization | Based on available data, the classification criteria are not met. |
| Skin sensitization | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Russian Federation. Sanitary-Epidemiological Rules, 1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008 | |
| | Not listed. |
| Toxic to reproduction | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - single exposure | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| Other 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. |

| Components | Species | Test Results |
|----------------------------------|------------|--------------|
| 2-pyrrolidone (CAS 616-45-5) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Guinea pig | 6500 mg/kg |
| | Rat | 6500 mg/kg |
| Diethylene glycol (CAS 111-46-6) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 11890 mg/kg |
| <i>Oral</i> | | |
| LD50 | Cat | 3300 mg/kg |
| | Dog | 9000 mg/kg |
| | Guinea pig | 8700 mg/kg |
| | Mouse | 13.3 g/kg |
| | Rabbit | 26.9 g/kg |
| | Rat | 12565 mg/kg |
| <i>Other</i> | | |
| LD50 | Mouse | 9.6 g/kg |
| | Rabbit | 2000 mg/kg |
| | Rat | 7700 mg/kg |
| | | 7.7 g/kg |

12. Ecological information

Persistence and degradability Not available.

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85

Mobility in soil Not available.

Other hazardous effects Not available.

Ecotoxicological data

| Product | Species | Test Results |
|----------------------------------|---------|---|
| C9442 Series (CAS Mixture) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) > 750 mg/l, 96 hours |
| Components | Species | Test Results |
| 2-pyrrolidone (CAS 616-45-5) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (<i>Daphnia pulex</i>) 13.21 mg/l, 48 hours |
| Diethylene glycol (CAS 111-46-6) | | |
| Aquatic | | |
| Fish | LC50 | Western mosquitofish (<i>Gambusia affinis</i>) > 32000 mg/l, 96 hours |

13. Disposal considerations

Local disposal regulations Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

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.

ADR

Not regulated as dangerous goods.

Further information

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

15. Regulatory information

Applicable 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/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

Russian Federation. Sanitary-Epidemiological Rules, 1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008

Not listed.

Ministry of Health and Social Development of Russian Federation. Order № 83 of 16.08.2004. List of hazardous and/or dangerous production factors and work under which preliminary and periodic medical examinations are conducted, methods of the examinations.

Not listed.

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

2-pyrrolidone (CAS 616-45-5)

Listed.

Diethylene glycol (CAS 111-46-6)

Listed.

16. Other information

Disclaimer

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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

12-Mar-2015

Revision date

01-Sep-2015

Version

02

Manufacturer information

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Direct 1-650-857-5020

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 |