C5010Series[C]-MSDS_US-English-11.pdf

C5010Series[M]-MSDS_US-English-04.pdf

C5010Series[Y]-MSDS_US-English-04.pdf



| Invent | |
|--------------------------------------|--|
| 1. Product and Compar | y Identification |
| Identification of the preparation | C5010Series[C] |
| Product use | Inkjet printing |
| Version # | 09 |
| Revision date | 16-Oct-2012 |
| CAS # | Mixture |
| Company identification | Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501 |
| | Hewlett-Packard health effects line (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 | on |
| Emergency overview | Contact with skin and eyes may result in irritation. |
| | Causes skin irritation. |
| Acute health effects | |
| | Any potential hazards are presumed to be due to exposure to the components. |
| Skin contact | <i>1,5-pentanediol</i> Contact with skin may result in irritation. |
| | Alkyldicarboxylic acid Contact with skin may result in irritation. |
| | Substituted phthalocyanine salt #3 Contact with skin may result in irritation. |
| | <i>Tetraethylene glycol</i> Contact with skin may result in irritation. |
| Eye contact | <i>1,5-pentanediol</i> Contact with eyes may result in irritation. |
| | <i>Alkyldicarboxylic acid</i> Contact can cause moderate to severe irritation and possible injury to the eyes. |
| | <i>Substituted phthalocyanine salt #3</i> Contact with eyes may result in irritation. |
| | <i>Tetraethylene glycol</i> Contact with eyes may cause irritation. |
| Inhalation | <i>Alkyldicarboxylic acid</i> Inhalation may result in respiratory irritation. |
| | Substituted phthalocyanine salt #3 Inhalation may result in respiratory irritation. |
| | <i>Tetraethylene glycol</i> Inhalation may result in respiratory irritation. |
| Ingestion | <i>Alkyldicarboxylic acid</i> Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| | |

| Potential health effects | |
|----------------------------|--|
| Routes of exposure | 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 |
| 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 / Informati | on on Ingredients |

| Components | | CAS # | Percent |
|------------------------------------|--|-------------|---------|
| 1,5-pentanediol | | 111-29-5 | < 15 |
| Alkyldicarboxylic acid | | Proprietary | < 7.5 |
| Substituted phthalocyanine salt #3 | | Proprietary | < 2.5 |
| Tetraethylene glycol | | 112-60-7 | < 5 |
| Water | | 7732-18-5 | > 60 |
| 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). | | |

| 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. |
| General advice | No additional information |
| 5. Fire Fighting Measures | S |
| Flammable properties | None known. |
| Extinguishing media | |
| Suitable 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 |
| Unsuitable extinguishing media | None known. |
| Specific methods | None established. |
| Hazardous combustion products | Refer to section 10. |

| 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 containment | Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. |
| 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.

General

8. Exposure Controls / Personal Protection

| 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. |

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

9. Physical & Chemical Properties

| 5. Filysical & chemical F | |
|---|---|
| Appearance | Not available. |
| Color | Cyan |
| Odor | Not available. |
| Odor threshold | Not available. |
| Physical state | Liquid |
| Form | Not available. |
| рН | 3.8 |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | Not determined |
| Flash point | 200 °F (93.3 °C) Pensky-Martens Closed Cup |
| Evaporation rate | Not determined |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not determined |
| Vapor pressure | Not determined |
| 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. |
| Viscosity | 2 cp |
| VOC | Not available. |
| Other information | For other VOC regulatory data/information see section 15. |
| 10. Chemical Stability & | Reactivity Information |

10. Chemical Stability & Reactivity Information

| Chemical stability | Stable under recommended storage conditions. |
|---------------------------------------|---|
| 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. |
| Possibility of hazardous reactions | Will not occur. |

11. Toxicological Information

| Serious eye damage/eye irritation | Not available. |
|--------------------------------------|--|
| Further information | This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

| 12. Ecological Informati | on |
|--|--|
| Aquatic toxicity | LC50/96h/Fathead minnows =461 mg/L Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100% |
| Persistence and degradability | |
| 13. Disposal Considerat | ions |
| Disposal instructions | Dispose of in compliance with federal, state, and local 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 Informati | on |
| Further information DOT | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. |
| Not regulated as dangerous good | s. |
| IATA Not regulated as dangerous good | s. |
| IMDG Not regulated as dangerous good | ls. |
| RID | |
| Not regulated as dangerous good | s. |
| Chemical Code Number Not listed. | istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and rt Notification (40 CFR 707, Subpt. D) |
| CERCLA (Superfund) reportal None | ble quantity |
| Occupational Safety and Heal 29 CFR 1910.1200 hazardous chemical | th Administration (OSHA) 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 | Νο |
| Section 311 hazardous chemical | Yes |
| State regulations | |
| US. Massachusetts RTK - | Substance List |
| Not regulated. | |
| = | nd Community Right-to-Know Act |
| Not regulated. US. Pennsylvania RTK - H Not regulated. | |

| US. Rhode Island RTK Not regulated. | |
|---|---|
| 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. 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: 2 Physical hazard: 0 |
| 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 | 16-Oct-2012 |
| This data sheet contains changes from the previous version in section(s): | Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Disclosure Overrides 5. Fire Fighting Measures: Suitable extinguishing media 9. Physical & Chemical Properties: Other information 11. Toxicological Information: Further information 14. Transport Information: Further information |
| Manufacturer information | 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

| 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 |
| | |



| 1. Product and Compa | ny Identification |
|--------------------------------------|---|
| Identification of the preparation | C5010Series[M] |
| Product use | Inkjet printing |
| Version # | 04 |
| Revision date | 16-Oct-2012 |
| CAS # | Mixture |
| Company identification | Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501 |
| | Hewlett-Packard health effects line (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 Identificati | on |
| Emergency overview | Contact with skin and eyes may result in irritation. |
| | Causes skin irritation. |
| Acute health effects | |
| | Any potential hazards are presumed to be due to exposure to the components. |
| Skin contact | <i>1,5-pentanediol</i> Contact with skin may result in irritation. <i>Alkyldicarboxylic acid</i> Contact with skin may result in irritation. |
| | <i>Tetraethylene glycol</i> Contact with skin may result in irritation. |
| Eye contact | <i>1,5-pentanediol</i> Contact with eyes may result in irritation. <i>Alkyldicarboxylic acid</i> Contact can cause moderate to severe irritation and possible injury to the eyes. <i>Substituted azonaphthalene mixed salt</i> Contact with eyes may result in irritation. <i>Tetraethylene glycol</i> Contact with eyes may cause irritation. |
| Inhalation | <i>Alkyldicarboxylic acid</i> Inhalation may result in respiratory irritation. <i>Tetraethylene glycol</i> Inhalation may result in respiratory irritation. |
| Ingestion | <i>Alkyldicarboxylic acid</i> Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

| Potential health effects | |
|--------------------------|--|
| Routes of exposure | 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 |
| 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

| Components | | CAS # | Percent |
|-------------------------------|---|-------------|--------------|
| 1,5-pentanediol | | 111-29-5 | < 15 |
| Alkyldicarboxylic acid | | Proprietary | < 5 |
| Substituted azonaphthalene mi | xed salt | Proprietary | < 5 |
| Tetraethylene glycol | | 112-60-7 | < 5 |
| Water | | 7732-18-5 | > 60 |
| Composition comments | This ink supply contains an aqueous ink formu This product has been evaluated using criteria Communication Standard). | | 1200 (Hazard |

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. 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. |
| General advice | No additional information |

5. Fire Fighting Measures

| Flammable properties | None known. |
|--|-----------------------------------|
| Extinguishing media Suitable extinguishing media | CO2, water, dry chemical, or foam |
| Unsuitable extinguishing media | None known. |
| Specific methods | None established. |
| 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 containment | Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. |
| 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.

General

8. Exposure Controls / Personal Protection

| 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. |

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

9. Physical & Chemical Properties

| 5. Fliysical & chemical F | Topercies |
|---|--|
| Appearance | Not available. |
| Color | Magenta |
| Odor | Not available. |
| Odor threshold | Not available. |
| Physical state | Liquid |
| Form | Not available. |
| рН | 3.8 |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | Not determined |
| Flash point | 200 °F (93.3 °C) Pensky-Martens Closed Cup |
| Evaporation rate | Not determined |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not determined |
| Vapor pressure | Not determined |
| 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. |
| Viscosity | 2 cp |
| VOC | Not available. |
| 10. Chemical Stability & | Reactivity Information |
| Chemical stability | Stable under recommended storage conditions. |
| Incompatible materials | Incompatible with strong bases and oxidizing agents. |
| | |

| 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. |
| Possibility of hazardous reactions | Will not occur. |

11. Toxicological Information

| Serious eye damage/eye irritation | Not available. |
|--------------------------------------|---|
| Sensitization | Non-sensitizer in guinea pig (OECD 406) (OECD 406) |
| 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 =417 mg/L |
|-------------------------------|------------------------------------|
| Persistence and degradability | Not available. |

1 1

| 13. Disposal Considerati | ons |
|---|--|
| 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. |
| | 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 | on |
| Further information | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. |
| DOT | |
| Not regulated as dangerous goods | 5. |
| IATA Not regulated as dangerous goods | 5. |
| IMDG | |
| Not regulated as dangerous goods | 5. |
| RID | |
| Not regulated as dangerous goods | 5. |
| 15. Regulatory Informat | ion |
| US federal regulations | US TSCA 12(b): Does not contain listed chemicals. |
| DEA Exempt Chemical Mix | tures Code Number |
| | |
| Not regulated. Drug Enforcement Admini | stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) |
| Not regulated. Drug Enforcement Admini Not regulated. | stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. | |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and H | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and F Hazard categories Section 302 extremely | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and H Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Reactivity Hazard - No No |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and H Hazard categories Section 302 extremely hazardous substance Section 311 hazardous | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No Reactivity Hazard - No No |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and H Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical State regulations US. Massachusetts RTK - S Not regulated. | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No Reactivity Hazard - No No |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and H Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical State regulations US. Massachusetts RTK - S Not regulated. | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No No Yes Substance List |
| Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and B Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical State regulations US. Massachusetts RTK - S Not regulated. US. New Jersey Worker an Not regulated. | stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No No Yes Substance List |

| 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. |
|---|--|
| Other information | Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). 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). |
| 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 |
| 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 | 16-Oct-2012 |
| This data sheet contains changes from the previous version in section(s): | Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Ingredients 4. First Aid Measures: Skin contact 4. First Aid Measures: Inhalation 5. Fire Fighting Measures: Suitable extinguishing media 8. Exposure Controls / Personal Protection: Engineering controls 11. Toxicological Information: Further information 13. Disposal Considerations: Disposal instructions 14. Transport Information: Further information 15. Regulatory Information: Other information |
| Manufacturer information | 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

| 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 |
| | |



| Invent | |
|--------------------------------------|--|
| 1. Product and Compa | ny Identification |
| Identification of the preparation | C5010Series[Y] |
| Product use | Inkjet printing |
| Version # | 04 |
| Revision date | 16-Oct-2012 |
| CAS # | Mixture |
| Company identification | Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501 |
| | Hewlett-Packard health effects line (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 Identificati | ion |
| Emergency overview | Contact with skin and eyes may result in irritation. |
| | Causes skin irritation. |
| Acute health effects | |
| | Any potential hazards are presumed to be due to exposure to the components. |
| Skin contact | <i>1,5-pentanediol</i> Contact with skin may result in irritation. |
| | <i>2-pyrrolidone</i> Contact with skin may result in irritation. |
| | <i>Alkyldicarboxylic acid</i> Contact with skin may result in irritation. |
| | <i>Tetraethylene glycol</i> Contact with skin may result in irritation. |
| Eye contact | <i>1,5-pentanediol</i> Contact with eyes may result in irritation. |
| | 2-pyrrolidone Contact with eyes may result in irritation. Alkyldicarboxylic acid |
| | Contact can cause moderate to severe irritation and possible injury to the eyes. <i>Tetraethylene glycol</i> Contact with eyes may cause irritation. |
| Inhalation | 2-pyrrolidone Inhalation may result in respiratory irritation. |
| | Alkyldicarboxylic acid Inhalation may result in respiratory irritation. |
| | <i>Tetraethylene glycol</i> Inhalation may result in respiratory irritation. |
| Ingestion | 2-pyrrolidone Ingestion may result in nausea, vomiting and diarrhea. |
| | <i>Alkyldicarboxylic acid</i> Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

| Potential health effects | |
|--------------------------|--|
| Routes of exposure | 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 |
| 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

| 5. composition / million | mation on ingredients | | |
|--------------------------------|---|-------------|---------|
| Components | | CAS # | Percent |
| 1,5-pentanediol | | 111-29-5 | < 15 |
| 2-pyrrolidone | | 616-45-5 | < 5 |
| Alkyldicarboxylic acid | | Proprietary | < 7.5 |
| Substituted napthalenesulfonat | e salt #7 | Proprietary | < 2.5 |
| Tetraethylene glycol | | 112-60-7 | < 5 |
| Water | | 7732-18-5 | > 60 |
| 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 | | | |
| 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. | |
|------------|--|--|

No additional information

| Ingestion | If ingestion of a large amount does occur, | seek medical attention. |
|-----------|--|-------------------------|
| Ingestion | I ingestion of a large amount does occur, | Seek mealear attention. |

5. Fire Fighting Measures

General advice

| Flammable properties | None known. |
|----------------------------------|-----------------------------------|
| Extinguishing media | |
| Suitable extinguishing media | CO2, water, dry chemical, or foam |
| Unsuitable extinguishing media | None known. |
| Specific methods | None established. |
| 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 containment | Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. |
| 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 Exposure guidelines Exposure guidelines Exposure limits have not been established for this product. General hygiene considerations Use in a well vertilated area. General hygiene Handle in accordance with good industrial hygiene and safety practice. considerations Observations General Use personal protective equipment to minimize exposure to skin and eye. 9. Physical & Chemical Properties Appearance Appearance Not available. Color Yellow Odor Not available. Off Not available. Physical state Liquid Form Not available. Prescring point Not available. Prescring point Not available. Prescring point Not determined Flash point 200 °F (93.3 °C) Pensky-Martens Closed Cup Evaporation rate Not determined Paper youtume Not determined Flash point | | |
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| reactions 11. Toxicological Information Serious eye damage/eye Not available. | = | |
| Serious eye damage/eye Not available. | | Will not occur. |
| Serious eye damage/eye Not available. | 11. Toxicological Inform | ation |
| | Serious eye damage/eye | |

This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures.

Further information

| 12. Ecological Informati | on |
|---|--|
| Aquatic toxicity | LC50/96h/Fathead minnows =< 400 mg/L Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100% |
| Persistence and degradability | Not available. |
| 13. Disposal Considerati | ions |
| 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. |
| | 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 Informati | on |
| Further information DOT | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. |
| Not regulated as dangerous good | s. |
| Not regulated as dangerous good | S. |
| IMDG | |
| Not regulated as dangerous good RID | S. |
| Not regulated as dangerous good | S. |
| 15. Regulatory Informat | tion |
| US federal regulations | US TSCA 12(b): Does not contain listed chemicals. |
| DEA Exempt Chemical Mix | |
| Not regulated. | istration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) |
| Not regulated. | istration (DER). List I & 2 Exempt chemical mixtures (21 Cr K 1510.12(C)) |
| 5 | istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and |
| Not listed. TSCA Section 12(b) Expor Not regulated. | rt Notification (40 CFR 707, Subpt. D) |
| CERCLA (Superfund) reportat | |
| None | |
| Occupational Safety and Heal | th 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 |
| State regulations | |
| US. Massachusetts RTK - | |
| - | 45-5) nd Community Right-to-Know Act |
| Not regulated. | |

| 2-pyrrolidone (CAS 616 US. Rhode Island RTK | -45-5) Listed. |
|---|---|
| Not regulated. 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. |
| Other information | Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). 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). |
| 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 |
| 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 | 16-Oct-2012 |
| This data sheet contains changes from the previous version in section(s): | Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Ingredients 4. First Aid Measures: Skin contact 4. First Aid Measures: Inhalation 5. Fire Fighting Measures: Suitable extinguishing media 8. Exposure Controls / Personal Protection: Engineering controls 9. Physical & Chemical Properties: Other information 11. Toxicological Information: Further information 13. Disposal Considerations: Disposal instructions 14. Transport Information: Further information 15. Regulatory Information: Other information |
| Manufacturer information | 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

| ACGIHAmerican Conference of Governmental Industrial HygienistsCASChemical Abstracts ServiceCERCLAComprehensive Environmental Response Compensation and Liability ActCFRCode of Federal Regulations |
|--|
| CERCLA Comprehensive Environmental Response Compensation and Liability Act |
| |
| Cede et Eederal Degulations |
| CFR Code of Federal Regulations |
| 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 |