C9381Series[B]-MSDS_US-English-13.pdf

C9381Series[Y]-MSDS_US-English-20.pdf



| 1. Product and Company | y Identification |
|--------------------------------------|--|
| Identification of the preparation | C9381Series[B] |
| Product use | Inkjet printing |
| Version # | 09 |
| Revision date | 30-Jan-2013 |
| 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 Identificatio | n |
| Emergency overview | Contact with skin and eyes may result in irritation. |
| Acute health effects | |
| | Any potential hazards are presumed to be due to exposure to the components. |
| Skin contact | <i>2-pyrrolidone</i> Contact with skin may result in irritation. |
| | <i>Substituted diol</i> Contact with skin may result in irritation. |
| | <i>Tetraethylene glycol</i> Contact with skin may result in irritation. |
| Eye contact | <i>2-pyrrolidone</i> Contact with eyes may result in irritation. |
| | <i>Substituted diol</i> Contact with eyes may result in irritation. |
| | <i>Tetraethylene glycol</i> Contact with eyes may cause irritation. |
| Inhalation | <i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. |
| | <i>Tetraethylene glycol</i> Inhalation may result in respiratory irritation. |
| Ingestion | <i>2-pyrrolidone</i> Ingestion may result in 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 thi product under normal use conditions. |
| | Complete toxicity data are not available for this specific formulation |

None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

| 3. Composition / Informa Components | | CAS # | Percent |
|--|--|-----------------------------|----------------------------|
| 2-pyrrolidone | | 616-45-5 | < 20 |
| Substituted diol | | Proprietary | < 2.5 |
| Tetraethylene glycol | | 112-60-7 | < 2.5 |
| Water | | 7732-18-5 | > 70 |
| Composition comments | This ink supply contains an aqueous ink formu | | |
| composition comments | This product has been evaluated using criteria Communication Standard). | | 1200 (Hazard |
| | Carbon black is present only in a bound form i | n this preparation. | |
| 4. First Aid Measures | | | |
| First aid procedures | | | |
| Eye contact | Do not rub eyes. Immediately flush with large least 15 minutes or until particles are removed | | |
| Skin contact | Wash affected areas thoroughly with mild soap attention. | | |
| Inhalation | Move to fresh air. If symptoms persist, get me | dical attention. | |
| Ingestion | If ingestion of a large amount does occur, see | k medical attention. | |
| General advice | No additional information | | |
| 5. Fire Fighting Measures | 6 | | |
| 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 Me | asures | | |
| Personal precautions | Wear appropriate personal protective equipme | ent. | |
| Environmental precautions | Do not let product enter drains. Do not flush ir | nto surface water or sanita | ny sewer system. |
| Methods for containment | Dike the spilled material, where this is possible or diatomaceous earth, commercial sorbents, o | | ent such as dry clay, sand |
| Methods for cleaning up | Soak up with inert absorbent material. | | |
| Other information | Soak up with inert absorbent material. Slowly sealed container. Dispose of in compliance wit 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 f | from excessive heat or col | d. |
| 8. Exposure Controls / Po | ersonal Protection | | |
| | | | |
| Exposure guidelines | Exposure limits have not been established for | this product. | |

| 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

| 9. Physical & Chemical Pi | roperties |
|---|--|
| Appearance | Not available. |
| Color | Black. or Dark Grey |
| Odor | Not available. |
| Odor threshold | Not available. |
| Physical state | Liquid |
| Form | Not available. |
| рН | 9.3 - 9.7 |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | Not determined |
| Flash point | 200 °F (93.3 °C) Setaflash Closed Tester |
| 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 - 1.2 |
| Relative density | Not available. |
| Solubility (water) | Soluble in water |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | 2 cp |
| VOC | < 248 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. |
| 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 Informa | ation |
| Carcinogenicity | Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. |
| 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 Informatio | n |
| Aquatic toxicity | This product has not been tested for ecological effects. |
| Persistence and degradability | Not available. |
| . ersistence and degradubility | |

| 13. Disposal Considera | ations | |
|--|--|--|
| 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 Informa | tion | |
| Further information DOT | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. | |
| Not regulated as dangerous go IATA | | |
| Not regulated as dangerous go | ods. | |
| IMDG | | |
| Not regulated as dangerous go | ods. | |
| RID Not regulated as dangerous go | ods | |
| | | |
| 15. Regulatory Inform | | |
| US federal regulations DEA Exempt Chemical N | Mixtures Code Number | |
| Not regulated. | | |
| 5 | inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) | |
| Not regulated. Drug Enforcement Adm Chemical Code Number | inistration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and | |
| Not listed. TSCA Section 12(b) Exp Not regulated. | port Notification (40 CFR 707, Subpt. D) | |
| CERCLA (Superfund) report | cable quantity | |
| None | | |
| Occupational Safety and He 29 CFR 1910.1200 | ealth Administration (OSHA) No | |

Listed.

hazardous chemical

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 |
| sto regulations | |

State regulations

US. Massachusetts RTK - Substance List 2-pyrrolidone (CAS 616-45-5) US. New Jersey Worker and Community Right-to-Know Act Not regulated.

- **US. Pennsylvania RTK Hazardous Substances** 2-pyrrolidone (CAS 616-45-5)
- US. Rhode Island RTK

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Not regulated.
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| 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 | 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) = < 1257 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids) |
| 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 | 30-Jan-2013 |
| 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 |



| Identification of the preparationC9381Series[Y]Product useInkjet printingVersion #17Revision date30-Jan-2013CAS #MixtureCompany identificationHewlett-Packard Company 3000 Hanover Street |
|--|
| Version #17Revision date30-Jan-2013CAS #MixtureCompany identificationHewlett-Packard Company |
| Revision date30-Jan-2013CAS #MixtureCompany identificationHewlett-Packard Company |
| CAS #MixtureCompany identificationHewlett-Packard Company |
| Company identification Hewlett-Packard Company |
| |
| 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 |
| Emergency overview Contact with skin and eyes may result in irritation. |
| Acute health effects |
| Any potential hazards are presumed to be due to exposure to the components. |
| Skin contact1-(2-hydroxyethyl)-2-pyrrolidoneContact with skin may result in irritation. |
| 2-pyrrolidone Contact with skin may result in irritation. |
| Aliphatic diol Contact with skin may result in irritation. |
| Substituted naphthalenesulfonate salt # 13 Contact with skin may result in irritation. |
| Eye contact1-(2-hydroxyethyl)-2-pyrrolidoneContact with eyes may result in irritation. |
| 2-pyrrolidone Contact with eyes may result in irritation. |
| Aliphatic diol Contact with eyes may result in irritation. |
| Substituted naphthalenesulfonate salt # 13 Contact with eyes may result in irritation. |
| Inhalation1-(2-hydroxyethyl)-2-pyrrolidoneInhalation may result in respiratory irritation. |
| 2-pyrrolidone Inhalation may result in respiratory irritation. |
| <i>Aliphatic diol</i> Inhalation may result in respiratory irritation. |
| Substituted naphthalenesulfonate salt # 13 Inhalation may result in respiratory irritation. |

| Ingestion | <i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea. <i>2-pyrrolidone</i> Ingestion may result in 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 CAS # Components Percent 1-(2-hydroxyethyl)-2-pyrrolidone 3445-11-2 < 10 2-pyrrolidone 616-45-5 < 5 Aliphatic diol < 10 Proprietary Substituted naphthalenesulfonate salt # 13 < 5 Proprietary > 70 Water 7732-18-5 **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. |
| Ingestion | If ingestion of a large amount does occur, seek medical attention. |
| General advice | No additional information |
| 5. Fire Fighting Measu | ures |
| Flammable properties | None known. |

lammable properties

| NOTE KIOWII. |
|-----------------------------------|
| |
| CO2, water, dry chemical, or foam |
| None known. |
| None established. |
| 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. |

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 dothing. Storage Keep out of the reach of children. Keep away from excessive heat or cold. 8. Exposure Controls / Personal Protection Exposure limits have not been established for this product. Engineering controls Use in a well ventilated area. Personal protective equipment General mygiene General Use personal protective equipment to minimize exposure to skin and eye. 9. Physical & Chemical Properties Appearance Not available. Color Odor Not available. Color Yellow Odor Not available. Physical state Liquid Form Not available. Physical state Liquid Freezing point Not available. Physical state Not available. Physical state Not determined Flash point Not available. Puper, %b yvolume Not determined Flash point Not determined Flash point Not determined Flash point Not determined Flammability limits in air, point N | | | |
|---|---|---|--|
| Storage Keep out of the reach of children. Keep away from excessive heat or cold. 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 considerations 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 Appearance Not available. Color Yellow Odor Not available. Form Not available. Physical state Liquid Form Not available. Prezing point Not available. Freezing point Not available. Forging point Not available. Forging point Not available. Flaamability limits in air, upper, who youtime Not available. Flaamability limits in air, upper, who youtime Not available. Specific gravity 1 - 1.2 Relative density Not available. | 7. Handling and Storage | | |
| 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 General Use personal protective equipment to minimize exposure to skin and eye. 9. Physical & Chemical Properties Not available. Appearance Not available. Odor Yellow Odor Not available. Odor Not available. Odor Not available. Physical state Liquid Form Not available. pH 7.1 - 7.7 Melting point Not available. Boiling point Not determined Flamability limits in air, upper, % by volume Not available. Flamability limits in air, upper, % by volume Not determined Vapor density Not available. Soluble in water Not available. Soluble in water Not available. Soluble in a wailable. Soluble in water Vapor density Not available. Soluble in water Not availab | Handling | Avoid contact with skin, eyes and clothing. | |
| Exposure guidelines Exposure limits have not been established for this product. Engineering controls Use in a well ventilated area. Personal protective equipment Idea 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 Not available. Color Yellow Yellow Odor threshold Not available. Yellow Odor threshold Not available. Yellow Physical state Liquid Yellow Form Not available. Yellow Physical state Liquid Yellow Reling point Not available. Yellow Pile no to available. Yellow Yellow Boiling point Not determined Yellow Fraezing point Not determined Yellow Flamability limits in air, upper, %o by volume Not determined Yellow Yapor density Not available. Yellow Yellow Yapor density Not available. Yellow | Storage | Keep out of the reach of children. Keep away from excessive heat or cold. | |
| Engineering controls Use in a well ventilated area. Personal protective equipment 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 Not available. Color Yellow Odor Not available. Odor Not available. Odor Not available. Physical state Liquid Form Not available. Physical state Liquid Form Not available. Boiling point Not available. Preszing point Not determined Freazing point Not determined Flash point Not determined Flasmability limits in air, upper, % by volume Not determined Flasmability limits in air, upper, % by volume Not determined Vapor density Not available. Solubility (water) Solubile in water Auto-ignition temperature Not available. Solubility (water) Solubile in water | 8. Exposure Controls / P | ersonal Protection | |
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| 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 Not available. Color Yellow Odor Not available. Odor Not available. Odor Not available. Odor theshold Not available. Physical state Liquid Form Not available. Physical state Liquid Form Not available. Physical point Not available. Freezing point Not available. Boiling point Not determined Flash point > 200 °F (> 93.3 °C) Setaflash Closed Tester Evaporation rate Not determined Flasmability limits in air, upper, % by volume Not determined Flasmability limits in air, lower, % by volume Not determined Specific gravity 1 - 1.2 Relative density Not available. Solubility (water) Solubile (water) <t< th=""><th>Engineering controls</th><th>Use in a well ventilated area.</th></t<> | Engineering controls | Use in a well ventilated area. | |
| considerations Use personal protective equipment to minimize exposure to skin and eye. 9. Physical & Chemical Properties Appearance Not available. Color Yellow Odor Not available. Odor Not available. Odor threshold Not available. Physical state Liquid Form Not available. PH 7.1 - 7.7 Melting point Not available. Boiling point Not available. Freezing point Not available. Boiling point Not available. Flash point > 200 °F (> 93.3 °C) Setaflash Closed Tester Evaporation rate Not determined Flasmability limits in air, upper, % by volume Not determined Flasmability limits in air, upper, % by volume Not available. Vapor pressure Not determined Specific gravity 1 - 1.2 Relative density Not available. Solubility (water) Solubile in water Auto-ignition temperature Not available. Viscosity 2 qp | Personal protective equipment | t | |
| 9. Physical & Chemical Properties Appearance Not available. Color Yellow Odor Not available. Odor Not available. Physical state Liquid Form Not available. pH 7.1 - 7.7 Melting point Not available. Freezing point Not available. Freezing point Not available. Boiling point Not available. Flash point > 200 °F (> 93.3 °C) Setaflash Closed Tester Pupper, % by volume Not available. Flammability limits in air, upper, % by volume Not determined Flammability limits in air, upper, % by volume Not determined Vapor pressure Not determined Vapor density Not available. Specific gravity 1 - 1.2 Relative density Not available. Solubility (water) Soluble in water Auto-ignition temperature Not available. Decomposition temperature Not available. Voc < 245 g/L Other information For other VOC regulatory data/information see section 15. <th></th> <th>Handle in accordance with good industrial hygiene and safety practice.</th> | | Handle in accordance with good industrial hygiene and safety practice. | |
| AppearanceNot available.ColorYellowOdorNot available.Odor MresholdNot available.Physical stateLiquidFormNot available.pH7.1 - 7.7Melting pointNot available.Freezing pointNot available.Boiling pointNot determinedFlash point> 200 °F (> 93.3 °C) Setaflash Closed TesterEvaporation rateNot determinedFlash point> 200 °F (> 93.3 °C) Setaflash Closed TesterEvaporation rateNot determinedFlammability limits in air, lower, % by volumeNot determinedVapor gressureNot determinedSpecific gravity1 - 1.2Relative densityNot available.Solublity (water)Soluble in waterAuto-ignition temperatureNot available.Viscosity> 2 cpVOC< 245 g/LOther informationFor other VOC regulatory data/information see section 15.I. Chemical Stability & Stable under recommended storage conditions.Incompatible materialsIncompatible materialsIncompatible with strong bases and oxidizing gents.Hazardou sdecompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | General | Use personal protective equipment to minimize exposure to skin and eye. | |
| ColorYellowOdorNot available.Odor thresholdNot available.Physical stateLiquidFormNot available.pH7.1 - 7.7Melting pointNot available.Freezing pointNot available.Boiling pointNot determinedFlash point> 200 °F (> 9.3.3 °C) Setaflash Closed TesterEvaporation rateNot determinedFlash point> 200 °F (> 9.3.3 °C) Setaflash Closed TesterEvaporation rateNot determinedFlasmability limits in air, upper, % by volumeNot determinedFlasmability limits in air, upper, % by volumeNot determinedVapor pressureNot determinedVapor densityNot available.Solubility (water)Solubile.Solubility (water)Solubile.Solubility (water)Solubile.Solubility (water)Solubile.Vapor pressureNot available.Solubility (water)Solubile.Solubility (water)Solubile.Solubility (water)Solubile.Solubility (water)Solubile.Solubility (water)Solubile.Vapor pressureNot available.Solubility (water)Solubile.Solubility (water)Solubile.Solubility (water)Solubile.Solubility (water)Solubile.Solubility (water)Solubile.Decomposition temperatureNot available.Viscosity> 2 cpVOC< 245 g/LOther informati | 9. Physical & Chemical P | roperties | |
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| FormNot available.pH7.1 - 7.7Melting pointNot available.Freezing pointNot available.Boiling pointNot determinedFlash point> 200 °F (> 93.3 °C) Setaflash Closed TesterEvaporation rateNot determinedFlammability limits in air, upper, % by volumeNot determinedVapor pressureNot determinedVapor densityNot available.Specific gravity1 - 1.2Relative densityNot available.Solubility (water)Soluble in waterAuto-ignition temperatureNot available.Viscosity> 2 c pVOC< 245 g/LOther informationFor other VOC regulatory data/information see section 15. 10. Chemical Stability & Excivity Information Stable under recommended storage conditions. Incompatible materialsHazardous decomposition, this produt may yield gaseous nitrogen oxides, carbon monoxide, carbon | Odor threshold | Not available. | |
| pH7.1 - 7.7Melting pointNot available.Freezing pointNot available.Boiling pointNot determinedFlash point> 200 °F (> 93.3 °C) Setaflash Closed TesterEvaporation rateNot determinedFlammability limits in air, upper, % by volumeNot available.Flammability limits in air, lower, % by volumeNot determinedFlammability limits in air, lower, % by volumeNot determinedFlammability limits in air, lower, % by volumeNot determinedVapor pressureNot determinedVapor densityNot available.Specific gravity1 - 1.2Relative densityNot available.Solubility (water)Soluble in waterAuto-ignition temperatureNot available.VoC< 245 g/LOther informationFor other VOC regulatory data/information see section 15.10. Chemical Stability & Reactivity InformationStable under recommended storage conditions. Incompatible materialsHazardous decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | Physical state | Liquid | |
| Melting pointNot available.Freezing pointNot available.Boiling pointNot determinedFlash point> 200 °F (> 93.3 °C) Setaflash Closed TesterEvaporation rateNot determinedFlammability limits in air, upper, % by volumeNot available.Plammability limits in air, upper, % by volumeNot determinedFlammability limits in air, upper, % by volumeNot determinedVapor pressureNot determinedVapor pressureNot determinedVapor densityNot available.Specific gravity1 - 1.2Relative densityNot available.Solubility (water)Soluble in waterAuto-ignition temperatureNot available.Viscosity> 2 cpVOC< 245 g/L | Form | Not available. | |
| Freezing point Not available. Boiling point Not determined Flash point > 200 °F (> 93.3 °C) Setaflash Closed Tester 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 pressure Not determined Vapor density Not available. Specific gravity 1 - 1.2 Relative density Not available. Solublity (water) Soluble in water Auto-ignition temperature Not available. Viscosity > 2 cp VOC < 245 g/L Other information For other VOC regulatory data/information see section 15. 10. Chemical Stability & Reactivity Information For other voc regulatory data/information, see section 15. Chemical stability Stable under recommended storage conditions. Incompatible materials Incompatible with strong bases and oxidizing agents. Hazardous decomposition Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | рН | 7.1 - 7.7 | |
| Boiling point Not determined Flash point > 200 °F (> 93.3 °C) Setaflash Closed Tester 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 pressure Not determined Vapor density Not available. Specific gravity 1 - 1.2 Relative density Not available. Solubility (water) Soluble in water Auto-ignition temperature Not available. Viscosity > 2 cp VOC < 245 g/L Other information For other VOC regulatory data/information see section 15. 10. Chemical Stability & Reactivity Information Stable under recommended storage conditions. Incompatible materials Incompatible with strong bases and oxidizing agents. Hazardous decomposition Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | Melting point | Not available. | |
| Flash point> 200 °F (> 93.3 °C) Setaflash Closed TesterEvaporation rateNot determinedFlammability limits in air, upper, % by volumeNot available.Flammability limits in air, lower, % by volumeNot determinedVapor pressureNot determinedVapor densityNot available.Specific gravity1 - 1.2Relative densityNot available.Solubli Ity (water)Soluble in waterAuto-ignition temperatureNot available.Not available.Not available.Viscosity> 2 cpVOC< 245 g/LOther informationFor other VOC regulatory data/information see section 15.10. Chemical Stability & Exercivity InformationStable under recommended storage conditions.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | Freezing point | Not available. | |
| Evaporation rateNot determinedFlammability limits in air, upper, % by volumeNot available.Flammability limits in air, lower, % by volumeNot determinedVapor pressureNot determinedVapor densityNot available.Specific gravity1 - 1.2Relative densityNot available.Solubility (water)Soluble in waterAuto-ignition temperatureNot available.Viscosity> 2 cpVOC< 245 g/L | Boiling point | Not determined | |
| Flammability limits in air, upper, % by volumeNot available.Flammability limits in air, lower, % by volumeNot determinedVapor pressureNot determinedVapor pressureNot available.Specific gravity1 - 1.2Relative densityNot available.Solubility (water)Soluble in waterAuto-ignition temperatureNot available.Pecomposition temperatureNot available.Viscosity> 2 cpVOC< 245 g/LOther informationFor other VOC regulatory data/information see section 15.I. Chemical Stability & Stable under recommended storage conditions.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | Flash point | > 200 °F (> 93.3 °C) Setaflash Closed Tester | |
| upper, % by volumeNot determinedFlammability limits in air, lower, % by volumeNot determinedVapor pressureNot determinedVapor pressureNot determinedVapor densityNot available.Specific gravity1 - 1.2Relative densityNot available.Solubility (water)Soluble in waterAuto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 2 cpVOC< 245 g/LOther informationFor other VOC regulatory data/information see section 15.10. Chemical StabilityStable under recommended storage conditions.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | Evaporation rate | Not determined | |
| Iower, % by volumeVapor pressureNot determinedVapor densityNot available.Specific gravity1 - 1.2Relative densityNot available.Solubility (water)Soluble in waterAuto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 2 cpVOC< 245 g/LOther informationFor other VOC regulatory data/information see section 15. 10. Chemical Stability & Exectivity Information Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | | Not available. | |
| Vapor densityNot available.Specific gravity1 - 1.2Relative densityNot available.Solubility (water)Soluble in waterAuto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 2 cpVOC< 245 g/LOther informationFor other VOC regulatory data/information see section 15.10. Chemical StabilityStable under recommended storage conditions.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | | Not determined | |
| Specific gravity1 - 1.2Relative densityNot available.Solubility (water)Soluble in waterAuto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 2 cpVOC< 245 g/LOther informationFor other VOC regulatory data/information see section 15.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | Vapor pressure | Not determined | |
| Relative densityNot available.Solubility (water)Soluble in waterAuto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 2 cpVOC< 245 g/L | Vapor density | Not available. | |
| Solubility (water)Soluble in waterAuto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 2 cpVOC< 245 g/L | Specific gravity | 1 - 1.2 | |
| Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 2 cpVOC< 245 g/L | Relative density | Not available. | |
| Decomposition temperatureNot available.Viscosity> 2 cpVOC< 245 g/L | Solubility (water) | Soluble in water | |
| Viscosity> 2 cpVOC< 245 g/LOther informationFor other VOC regulatory data/information see section 15.10. Chemical Stability & Reactivity InformationChemical stabilityStable under recommended storage conditions.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | Auto-ignition temperature | Not available. | |
| VOC< 245 g/L | Decomposition temperature | Not available. | |
| Other informationFor other VOC regulatory data/information see section 15.10. Chemical StabilityReactivity InformationChemical stabilityStable under recommended storage conditions.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | Viscosity | > 2 cp | |
| 10. Chemical Stability & Reactivity Information Chemical stability Stable under recommended storage conditions. Incompatible materials Incompatible with strong bases and oxidizing agents. Hazardous decomposition Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | VOC | < 245 g/L | |
| Chemical stabilityStable under recommended storage conditions.Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | Other information | For other VOC regulatory data/information see section 15. | |
| Incompatible materialsIncompatible with strong bases and oxidizing agents.Hazardous decompositionUpon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | 10. Chemical Stability & Reactivity Information | | |
| Hazardous decomposition Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon | Chemical stability | Stable under recommended storage conditions. | |
| | Incompatible materials | Incompatible with strong bases and oxidizing agents. | |
| | - | | |
| Possibility of hazardous Will not occur. reactions | - | Will not occur. | |

11. Toxicological Information

Serious eye damage/eye Not available. irritation

| 12. Ecological Information | n | | | | |
|---|--|--|--|--|--|
| Aquatic toxicity | LC50/96h/Fathead minnows => 750 mg/L | | | | |
| Persistence and degradability | Not available. | | | | |
| 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. | | | | |
| | 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 Informatio | n | | | | |
| Further information | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. | | | | |
| DOT | | | | | |
| Not regulated as dangerous goods | | | | | |
| ΙΑΤΑ | | | | | |
| Not regulated as dangerous goods | | | | | |
| IMDG | | | | | |
| Not regulated as dangerous goods | | | | | |
| RID | | | | | |
| Not regulated as dangerous goods | | | | | |
| | | | | | |
| A.E. D | | | | | |
| 15. Regulatory Informati | | | | | |
| US federal regulations | US TSCA 12(b): Does not contain listed chemicals. | | | | |
| US federal regulations DEA Exempt Chemical Mix | US TSCA 12(b): Does not contain listed chemicals. | | | | |
| US federal regulations DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis | US TSCA 12(b): Does not contain listed chemicals. | | | | |
| US federal regulations DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number | US TSCA 12(b): Does not contain listed chemicals. t ures Code Number | | | | |
| US federal regulations DEA Exempt Chemical Mixed Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export | US TSCA 12(b): Does not contain listed chemicals. tures Code Number stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) | | | | |
| US federal regulations DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) | | | | |
| US federal regulations DEA Exempt Chemical Mixed Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportable | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) | | | | |
| US federal regulations DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportable None | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity | | | | |
| US federal regulations DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportable None Occupational Safety and Healt | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity h Administration (OSHA) | | | | |
| US federal regulations DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportable None | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity | | | | |
| US federal regulations DEA Exempt Chemical Mixi Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportabl None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity h Administration (OSHA) No | | | | |
| US federal regulations DEA Exempt Chemical Mixi Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportabl None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity h Administration (OSHA) | | | | |
| US federal regulations DEA Exempt Chemical Mixt Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportabl None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and R | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity h Administration (OSHA) No eauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No | | | | |
| US federal regulations DEA Exempt Chemical Mixi Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportabl None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and R Hazard categories | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity h Administration (OSHA) No eauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No | | | | |
| US federal regulations DEA Exempt Chemical Mixi Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportabl None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and R Hazard categories Section 302 extremely hazardous substance Section 311 hazardous | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity h Administration (OSHA) No eauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Pressure Hazard - No Pressure Hazard - No Reactivity Hazard - No No | | | | |
| US federal regulations DEA Exempt Chemical Mixi Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportabl None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and R Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical | US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity h Administration (OSHA) No eauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No No | | | | |

| US. New Jersey Worker an Not regulated. US. Pennsylvania RTK - Ha | d Community Right-to-Know Act zardous Substances |
|---|--|
| 2-pyrrolidone (CAS 616-4 US. Rhode Island RTK Not regulated. | 5-5) Listed. |
| 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 | 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) = $< 950 \text{ g/L}$ (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids) |

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 | 30-Jan-2013 |
| 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 |
| | |