

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

| Important information | *** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. *** |
|--|---|
| 1.1. Product identifier | |
| Trade name or designation of the mixture | C4811Series |
| Registration number | - |
| Synonyms | None. |
| Issue date | 17-Jun-2013 |
| Version number | 11 |
| Revision date | 30-May-2020 |
| Supersedes date | 01-May-2020 |
| 1.2. Relevant identified uses of t | the substance or mixture and uses advised against |
| Identified uses | Inkjet printing |
| Uses advised against | None known. |
| 1.3. Details of the supplier of the | e safety data sheet |
| | HP Inc. UK Limited |
| | Cain Road, Amen Corner |
| | Bracknell, Berkshire RG12 1HN |
| | United Kingdom |
| Telephone | 44 (0) 879 013 0790 |
| HP Inc. health effects line | |
| (Toll-free within the US) | 1-800-457-4209 |
| (Direct) | 1-760-710-0048 |
| HP Inc. Customer Care | |
| Line | |
| (Toll-free within the US) | 1-800-474-6836 |
| (Direct) | 1-208-323-2551 |
| Email: | hpcustomer.inquiries@hp.com |
| 1.4 Emergency telephone number | 0207771 5307 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification as hazardous according to Regulation (EC) 1272/2008.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

| Laber according to Regulation (E | |
|----------------------------------|--|
| Hazard pictograms | None. |
| Signal word | None. |
| Hazard statements | The mixture does not meet the criteria for classification. |
| Precautionary statements | |
| Prevention | Not available. |
| Response | Not available. |
| Storage | Not available. |
| Disposal | Not available. |
| Supplemental label information | None. |
| 2.3. Other hazards | Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation. |

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| General | information |
|-----------|-------------|
| 001101 ai | |

| | 65-85 | 7732-18-5 | | | |
|------------|---------|-----------------------|--|---|---|
| | 22.00 | 231-791-2 | - | - | |
| | | | | | |
| | < 7.5 | 110-15-6 203-740-4 | 01-2119896114-34-XXXX | - | |
| ye Dam. 1; | H318 | | | | |
| salt #3 | < 2.5 | Proprietary | - | - | |
| ye Dam. 1; | H318 | | | | |
| | salt #3 | ye Dam. 1;H318 | < 7.5 110-15-6 203-740-4 iye Dam. 1;H318 salt #3 < 2.5 Proprietary - | < 7.5 110-15-6 01-2119896114-34-XXXX 203-740-4 iye Dam. 1;H318 salt #3 < 2.5 Proprietary - | < 7.5 110-15-6 01-2119896114-34-XXXX - 203-740-4 sye Dam. 1;H318 salt #3 < 2.5 Proprietary |

SECTION 4: First aid measures

| General information | Not available. |
|---|---|
| 4.1. Description of first aid meas | sures |
| Inhalation | Remove to fresh air. If symptoms persist, get medical attention. |
| Skin contact | Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists. |
| 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. |
| Ingestion | If ingestion of a large amount does occur, seek medical attention. |
| 4.2. Most important symptoms and effects, both acute and delayed | Not available. |
| 4.3. Indication of any immediate medical attention and special treatment needed | Not available. |

SECTION 5: Firefighting measures

| General fire hazards | Not available. |
|--|--|
| 5.1. Extinguishing media Suitable extinguishing | For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. |
| media | For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray. |
| Unsuitable extinguishing media | None known. |
| 5.2. Special hazards arising from the substance or mixture | Not available. |
| 5.3. Advice for firefighters | |
| Special protective equipment for firefighters | Not available. |
| Special fire fighting procedures | Not available. |
| Specific methods | None established. |

SECTION 6: Accidental release measures

| 6.1. Personal precautions, protective equipment and emergency procedures | | | |
|--|---|--|--|
| For non-emergency personnel | Wear appropriate personal protective equipment. | | |
| For emergency responders | Not available. | | |
| 6.2. Environmental precautions | Do not let product enter drains. Do not flush into surface water or sanitary sewer system. | | |
| 6.3. Methods and material for containment and cleaning up | 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. | | |
| 6.4. Reference to other sections | Not available. | | |

SECTION 7: Handling and storage 7.1. Precautions for safe handling Avoid contact with skin, eyes and clothing. 7.2. Conditions for safe storage, including any incompatibilities Keep out of the reach of children. Keep away from excessive heat or cold. 7.3. Specific end use(s) Not available. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Occupational exposure limits | No exposure limits noted for ingredient(s). |
|--------------------------------------|--|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Recommended monitoring procedures | Not available. |

Derived no effect levels (DNELs)

| Components | Туре | Route | Value | Form |
|-------------------------------------|-----------------------------------|---------------------|--------------------|------------------------|
| succinic acid (CAS 110-15-6) | Consumers | Dermal | 67 mg/kg | Systemic short term |
| | | Dermal | 43 mg/kg | Systemic long term |
| | | Inhalation | 10 mg/m3 | Local long term |
| | | Inhalation | 10 mg/m3 | Local short term |
| | | Inhalation | 10 mg/m3 | Systemic long term |
| | | Inhalation | 10 mg/m3 | Systemic short term |
| | | Oral | 67 mg/kg | Systemic short term |
| | Workers | Dermal | 71 mg/kg | Systemic long term |
| | | Dermal | 67 mg/kg | Systemic short term |
| | | Inhalation | 10 mg/m3 | Local long term |
| | | Inhalation | 10 mg/m3 | Local short term |
| | | Inhalation | 10 mg/m3 | Systemic long term |
| | | Inhalation | 10 mg/m3 | Systemic short term |
| Predicted no effect concentration | ons (PNECs) | | | |
| Components | Туре | Route | Value | Form |
| succinic acid (CAS 110-15-6) | Not applicable | Freshwater | 0.1 mg/l | |
| | | Intermittent | 1 mg/l | Releases |
| | | Marine water | 0.01 mg/l | |
| | | Sediment | 0.079 mg/kg | Freshwater |
| | | Sediment | 0.0079 mg/kg | Marine water |
| | | Soil | 0.0177 mg/kg | |
| | | STP | 3 mg/l | Sewage Treatment Plant |
| Exposure guidelines | Exposure limits have not been e | stablished for this | product. | |
| 8.2. Exposure controls | | | | |
| Appropriate engineering controls | Use in a well ventilated area. | | | |
| Individual protection measures, | , such as personal protective equ | uipment | | |
| General information | Use personal protective equipme | ent to minimize exp | posure to skin and | eye. |
| Eye/face protection | Not available. | | | |
| Skin protection | | | | |
| - Hand protection | Not available. | | | |
| - Other | Not available. | | | |
| Respiratory protection | Not available. | | | |
| Thermal hazards | Not available. | | | |
| Hygiene measures | Handle in accordance with good | industrial hygiene | and safety practic | e. |
| Environmental exposure | Not available. | | | |

9.1. Information on basic physical and chemical properties

Physical state

Liquid.

| Form | Not available. |
|--|---|
| Color | Cyan |
| Odor | Not available. |
| Odor threshold | Not available. |
| рН | 3.8 - 4.2 |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not determined |
| Flash point | > 200.0 °F (> 93.3 °C) Setaflash Closed Cup |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or exp | osive limits |
| Flammability limit - lower (%) | Not determined |
| Flammability limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Soluble in water |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | >= 2 cp |
| Explosive properties | Not available. |
| Oxidizing properties | Not determined |
| 9.2. Other information | |
| Percent volatile | 3.85 % estimated |
| VOC | 197.61 g/l |
| OFOTION 40. Otability and | l ve e eficitiv |

SECTION 10: Stability and reactivity

| 10.1. Reactivity | Not available. |
|---|---|
| 10.2. Chemical stability | Stable under recommended storage conditions. |
| 10.3. Possibility of hazardous reactions | Will not occur. |
| 10.4. Conditions to avoid | Not available. |
| 10.5. Incompatible materials | Incompatible with strong bases and oxidizing agents. |
| 10.6. Hazardous decomposition products | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |

SECTION 11: Toxicological information

| General information | Not available. | |
|--|--|--|
| Information on likely routes of exposure | | |
| Inhalation | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. | |
| Skin contact | Contact with skin may result in mild irritation. | |
| Eye contact | Contact with eyes may result in mild irritation. | |
| Ingestion | Health injuries are not known or expected under normal use. | |
| Symptoms | Not available. | |
| 11.1. Information on toxicologica | al effects | |
| Acute toxicity | Based on available data, the classification criteria are not met. | |
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. Non irritant in rabbit (OECD 404) | |
| Serious eye damage/eye irritation | Based on available data, the classification criteria are not met. Not classified as an irritant according to, OECD 405. | |
| Respiratory sensitization | Based on available data, the classification criteria are not met. | |

Material name: C4811Series

| Skin sensitization | Based or | າ available data, the class | sification criteria are not met. |
|---|-----------------------------------|--|---|
| Germ cell mutagenicity | Based or | າ available data, the class | sification criteria are not met. |
| Carcinogenicity | Based or | າ available data, the class | sification criteria are not met. |
| Reproductive toxicity | Based or | າ available data, the class | sification criteria are not met. |
| Specific target organ toxicity - single exposure | Based or | າ available data, the classi | sification criteria are not met. |
| Specific target organ toxicity - repeated exposure | Based or | າ available data, the classi | sification criteria are not met. |
| Aspiration hazard | Based or | າ available data, the class | sification criteria are not met. |
| Mixture versus substance information | Not avail | able. | |
| Other information | | 2 | ailable for this specific formulation alth effects and Section 4 for first aid measures. |
| SECTION 12: Ecological | informati | on | |
| 12.1. Toxicity | | | |
| Aquatic toxicity | Static act LC50/96I EC50/48 | ute toxicity (trout), surviva ute toxicity (trout), surviva h/rainbow trout => 100 mg h/daphnia => 100mg/l, C h/algae => 100 mg/l, OEC | al (10 mg/L) = 100% g/l OECD 202 |
| Components | | Species | Test Results |
| succinic acid (CAS 110-15-6) | | | |
| Aquatic | | | |
| Fish | LC50 | Fish | 101, 96 Hours |
| 12.2. Persistence and | Not avail | able. | |

SECTION 13: Disposal considerations

12.3. Bioaccumulative potential Not available.

Not available.

Not available.

Not available.

Not a PBT or vPvB substance or mixture.

degradability

Partition coefficient n-octanol/water (log Kow) succinic acid

12.4. Mobility in soil

assessment

Bioconcentration factor (BCF)

12.5. Results of PBT and vPvB

12.6. Other adverse effects

| 13.1. Waste treatment methods | |
|-------------------------------|--|
| Residual waste | Not available. |
| Contaminated packaging | Not available. |
| EU waste code | Not available. |
| Disposal methods/information | 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. |

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SECTION 14: Transport information

| DOT | |
|------------------------------|----------------|
| UN number | Not available. |
| UN proper shipping name | Not Regulated |
| Transport hazard class(es) | |
| Class | Not available. |
| Subsidiary risk | - |
| Packing group | Not available. |
| Environmental hazards | |
| Marine pollutant | No |
| Special precautions for user | Not available. |

| ΙΑΤΑ | |
|------------------------------|--|
| UN number | Not available. |
| UN proper shipping name | Not Regulated |
| Transport hazard class(es) | |
| Class | Not available. |
| Subsidiary risk | - |
| Packing group | Not available. |
| Environmental hazards | No |
| Special precautions for user | Not available. |
| IMDG | |
| UN number | Not available. |
| UN proper shipping name | Not Regulated |
| Transport hazard class(es) | |
| Class | Not available. |
| Subsidiary risk | - |
| Packing group | Not available. |
| Transport hazard class(es) | |
| Marine pollutant | No |
| EmS | Not available. |
| Special precautions for user | Not available. |
| ADR | |
| UN number | Not available. |
| UN proper shipping name | Not Regulated |
| Transport hazard class(es) | |
| Class | Not available. |
| Subsidiary risk | - |
| Hazard No. (ADR) | Not available. |
| Tunnel restriction code | Not available. |
| Packing group | Not available. |
| Environmental hazards | No |
| Special precautions for user | Not available. |
| Further information | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. |
| | Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable. |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

| Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed. |
|---|
| Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended |
| Not listed. |
| Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended |
| Not listed. |
| Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended |
| Not listed. |
| Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended |
| Not listed. |
| Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended |
| Not listed. |
| Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended |
| Not listed. |
| Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA |
| Not listed. |
| Authorizations |
| Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended |
| Not listed. |
| Restrictions on use |
| Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended |
| Not listed. |
| |

| work, as amended | |
|--|--|
| Not listed. | |
| Other EU regulations | |
| Directive 2012/18/EU on ma | ajor accident hazards involving dangerous substances, as amended |
| Not listed. | |
| Other regulations | All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/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). |
| National regulations | Not available. |
| 15.2. Chemical safety assessment | See attached SUMI or GEIS document, if applicable. |
| SECTION 16: Other infor | mation |
| References | Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency (REACH). |
| | Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006. |
| | Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, and amendments (CLP). |
| Information on evaluation method leading to the classification of mixture | The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. |
| Full text of any H-statements not written out in full under Sections 2 to 15 | H318 Causes serious eye damage. |
| Revision information | 1. Product and Company Identification: Alternate Trade Names |
| Training information | Follow training instructions when handling this material. |
| Disclaimer | This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries. |
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contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

Explanation of abbreviations

| | American Conference of Covernmental Industrial Llugianists |
|--------|---|
| 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 |
| | |

Safe Use of Mixture Information (SUMI)

Water Based Ink: WB01 *English*

Disclaimer

This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.

The REACH registration number(s), where applicable, completes an extended product SDS.

| , , , , , , , , , , , , , , , , , , , | 3), where uppicable, completes an extended product 3D3. |
|---|--|
| Operational conditions | |
| Maximum duration | Up to 8 hours per day |
| Frequency of exposure | < 240 days per year |
| Process conditions | Covers use at ambient temperatures. Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace. Avoid direct contact. Regular cleaning of equipment and work area. Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions |
| | followed. |
| Risk management measures | |
| Conditions and measures | Wear safety glasses with side shields (or goggles), if splashing is possible. |
| related to Personal Protection | |
| | Wear appropriate chemical resistent gloves: see section 8 of the SDS. |
| Equipment, hygiene and | Wear appropriate chemical resistent clothing. |
| health evaluation | In case of inadequate ventilation wear respiratory protection. |
| | Eye wash fountain and emergency showers are recommended. |
| | Avoid breathing mist/vapours. |
| | Avoid contact with skin, eyes and clothing. |
| | Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured. |
| | |
| Good practice advice | |
| Use personal protective equipme | ent as required. |
| Wash hands before breaks and a | after work. |
| Keep good industrial hygiene and | d safety practice. |
| Use only with adequate ventilati | |
| Do no eat, drink or smoke when | |
| Wash contaminated clothing be | |
| Store at room temperature. | |
| Environmental measures | |
| | is into source/unitor supplies |
| Do not allow this material to dra | |
| - | ding to Local, State, Federal and Provincial Environmental Regulations. |
| | ith appropriately licenced waste contractor. |
| Use descriptors | |
| IS-Use at industrial sites | |
| PW-Widespread use by profession | onal workers |
| SU7-Printing and reproduction n | nedia |
| PC18-Inks and Toners | |
| PROC1-Chemical production or r | refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. |
| PROC2-Chemical production or r | refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
| condition PROC8a-Transfer of substance o | ation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment or mixture (charging and discharging) at non-dedicated facilities or mixture (charging and discharging) at dedicated facilities |
| ERC5-Use at industrial site leading | |
| | |
| | to inclusion into/onto article (indoor) |
| Additional information on prod | |
| | s on the label, the classification of the mixture is provided. |
| Most of the water based inks are | |
| | is based on the individuel ingredients and their concentration within the mixture. |
| | ne classification are stated in Section 3 of the SDS. |
| Relevant limit values of ingredier | nts on which the exposure assessment is based, are listed in section 8 of the SDS. |
| The product may contain sensitiz | zing ingredients that may cause allergic reaction to certain people. |
| Section 2 of the SDS states these | ingredients where applicable. |
| | WB01 English.pdf |