

SAFETY DATA SHEET

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

| 1.1. Product identifier Trade name or designation of the mixture | F6U12Series |
|--|---|
| Registration number | - |
| Synonyms | None. |
| Issue date | 03-Jun-2016 |
| Version number | 01 |
| 1.2. Relevant identified uses o | f the substance or mixture and uses advised against |
| Identified uses | Inkjet printing |
| Uses advised against | None known. |
| Company identification | HP Inc UK Limited Cain Rd., Amen Corner, Pt 2nd Floor (Bldg BRA03) Bracknell, United Kingdom RG12 1HN 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 Poison Information Center 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 according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

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

| Contains: | 2-pyrrolidone, Pigment Blue, Water |
|-----------------------------------|--|
| 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 | Contains 1,2-Benzisothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one. May produce an allergic reaction. |
| 2.3. Other hazards | Complete toxicity data are not available for this specific formulation. |
| | 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. |
| | 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. |

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|--------------------|--------------------|------------------------|-------------------------------|-----------|-------|
| Water | 70-85 | 7732-18-5 231-791-2 | - | - | |
| Classification: | - | | | | |
| 2-pyrrolidone | <10 | 616-45-5 210-483-1 | 01-2119475471-37-XXXX | - | |
| Classification: | Eye Irrit. 2;H319 | | | | |
| Pigment Blue | <5 | Proprietary | 01-2119458771-32-XXXX | - | |
| Classification: | - | - | | | |
| nposition comments | This ink supply co | ntains an aqueous i | nk formulation. | | |

SECTION 4: First aid measures

| 4.1. Description of first aid me | asures |
|--|---|
| Inhalation | Move 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 | Not available. |

needed

SECTION 5: Firefighting measures

| General fire hazards 5.1. Extinguishing media | Not available. |
|---|---|
| Suitable extinguishing media | Dry chemical, CO2, water spray or regular foam. |
| 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. |

| 5.2. Environmental precautions | Do not let proc | duct enter drains. | Do not flush into s | urface water or sani | tary sewer system. |
|--|---|--|--|---|--|
| 5.3. 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 | d storage | | | | |
| 7.1. Precautions for safe nandling | Avoid contact | with skin, eyes an | d clothing. | | |
| 7.2. Conditions for safe storage, including any ncompatibilities | Keep out of th | e reach of childrer | n. Keep away from | excessive heat or c | old. |
| 7.3. Specific end use(s) | Not available. | | | | |
| SECTION 8: Exposure co | ntrols/perso | onal protection | on | | |
| 3.1. Control parameters | | | | | |
| Occupational exposure limits | No exposure li | mits noted for ing | redient(s). | | |
| Biological limit values | No biological e | xposure limits not | ed for the ingredie | nt(s). | |
| Recommended monitoring procedures | Not available. | | J. | | |
| Derived no-effect level (DNEL) | I | | | | |
| Components | | Туре | Route | Value | Form |
| 2-pyrrolidone (CAS 616-45-5) | | Consumers | Dermal Dermal Inhalation Oral Oral | 6 mg/kg bw/d 167 mg/kg bw/d 17.1 mg/m3 5.2 mg/kg bw/d 33.3 mg/kg bw/d | Systemic long term Systemic acute short term Systemic long term Systemic long term Systemic acute short term |
| | | Workers | Dermal Dermal Inhalation | 277 mg/kg bw/d 10 mg/kg bw/d 57.8 mg/m3 | Systemic acute short term Systemic long term Systemic long term |
| Predicted no effect concentrat Components | . , | Туре | Route | Value | Form |
| 2-pyrrolidone (CAS 616-45-5) | | Not applicable | Freshwater Intermittant Marine water Sediment | 0.5 mg/l 0.5 mg/l 0.05 mg/l 0.4205 mg/kg | Releases Freshwater |
| | | | Soil STP | 0.0612 mg/kg 10 mg/l | Sewage Treatment Plant |
| Exposure guidelines | Exposure limit | s have not been e | stablished for this | - | Sewage Treatment Flant |
| 8.2. Exposure controls | | | | | |
| Appropriate engineering | Use in a well v | entilated area. | | | |
| ndividual protection measure | s, such as pers | onal protective | equipment | | |
| General information | | - | | osure to skin and e | ye. |
| Eye/face protection Skin protection | Not available. | | | | |
| - Hand protection | Not available. | | | | |
| - Other | Not available. | | | | |
| Respiratory protection | Not available. | | | | |
| Thermal hazards | Not available. | | | | |
| | | Handle in accordance with good industrial hygiene and safety practice. | | | |
| lygiene measures | Not available. | | | | |

Appearance

| Physical state | Not available. |
|--|---|
| Color | Cyan |
| Odor | Not available. |
| Odor threshold | Not available. |
| рН | 9 - 9.5 |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | > 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or early a second s | xplosive limits |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Solubility (other) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Explosive properties | Not available. |
| Oxidizing properties | Not determined |
| 9.2. Other information | |
| VOC (Weight %) | 186 g/l |
| | |

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.

11.1. Information on toxicological effects

| Acute toxicity Skin corrosion/irritation Serious eye damage/eye irritation | Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. |
|---|---|
| Respiratory sensitization Skin sensitization | Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity Carcinogenicity Reproductive toxicity | Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - single exposure | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - repeated exposure | Based on available data, the classification criteria are not met. |

| Aspiration hazard | Based on available data, the classification criteria are not met. | | | |
|---|---|--|--|--|
| Components | Species | | Test Results | |
| 2-pyrrolidone (CAS 616-45-5) | | | | |
| Acute | | | | |
| Oral | | | | |
| LD50 | Guinea pig | | 6500 mg/kg | |
| | Rat | | 6500 mg/kg | |
| Mixture versus substance information | Not available. | | | |
| Other information | | icity data are not available for this sp ion 2 for potential health effects and | | |
| SECTION 12: Ecological | informatior | 1 | | |
| Aquatic toxicity | No informatio | n available. | | |
| 12.1. Toxicity | | | | |
| Components | | Species | Test Results | |
| 2-pyrrolidone (CAS 616-45-5) | | | | |
| Aquatic | | | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) | 13.21 mg/l, 48 hours | |
| 12.2. Persistence and degradability | Not available. | | | |
| 12.3. Bioaccumulative potential | Not available. | | | |
| Partition coefficient n-octanol/water (log Kow) 2-pyrrolidone | | -0.85 | | |
| Bioconcentration factor (BCF) | Not available. | | | |
| 12.4. Mobility in soil | Not available. | | | |
| 12.5. Results of PBT and vPvB assessment | Not a PBT or vPvB substance or mixture. | | | |
| 12.6. Other adverse effects | Not available. | | | |
| SECTION 13: Disposal co | onsideration | IS | | |
| 13.1. Waste treatment metho | | | | |
| Residual waste | Not available. | | | |
| Contaminated packaging | Not available. | | | |
| EU waste code | Not available. | Not available. | | |
| Disposal methods/information | | this material to drain into sewers/wa aste material according to Local, Stat | ter supplies. e, Federal, and Provincial Environmental | |
| | HP original in | | g program enables simple, convenient recycling of e information and to determine if this service is .hp.com/recycle. | |

SECTION 14: Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

Further information

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

SECTION 15: Regulatory information

| SECTION 15: Regulato | ory information |
|---|--|
| 15.1. Safety, health and en | vironmental regulations/legislation specific for the substance or mixture |
| EU regulations | |
| Regulation (EC) No. 10 Not listed. | 05/2009 on substances that deplete the ozone layer, Annex I |
| Regulation (EC) No. 10 Not listed. | 05/2009 on substances that deplete the ozone layer, Annex II |
| Regulation (EC) No. 85 Not listed. | 0/2004 On persistent organic pollutants, Annex I as amended |
| amended | 9/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as |
| Not listed. Regulation (EC) No. 68 amended | 9/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as |
| Not listed. Regulation (EC) No. 68 amended | 9/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as |
| | 9/2008 concerning the export and import of dangerous chemicals, Annex V as amended |
| | 6/2006 Annex II Pollutant Release and Transfer Registry |
| Not listed. Regulation (EC) No. 19 Not listed. | 07/2006, REACH Article 59(1) Candidate List as currently published by ECHA |
| Authorizations | |
| Regulation (EC) No. 14 Not listed. | 3/2011 Annex XIV Substances Subject to Authorization |
| Restrictions on use | |
| Regulation (EC) No. 19 amended | 07/2006, REACH Annex XVII Substances subject to restriction on marketing and use as |
| Not listed. Directive 2004/37/EC: mutagens at work | on the protection of workers from the risks related to exposure to carcinogens and |
| Not regulated. Directive 92/85/EEC: o are breastfeeding | on the safety and health of pregnant workers and workers who have recently given birth or |
| Not regulated. | |
| Other EU regulations | |
| | eveso II) on the control of major-accident hazards involving dangerous substances |
| Not regulated. Directive 98/24/EC on agents at work | the protection of the health and safety of workers from the risks related to chemical |
| | the protection of young people at work |
| Not regulated. | |
| 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. |

assessment

SECTION 16: Other information

| References | Not available. |
|---|---|
| Information on evaluation method leading to the classification of mixture | Not available. |
| Issue date | 03-Jun-2016 |
| Revision information | None. |
| Training information | Not available. |
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| Manufacturer information | HP Inc. 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020 |

Explanation of abbreviations

| ACGIH | American Conference of Governmental Industrial Hygienists |
|---------------------|---|
| CAS | Chemical Abstracts Service |
| | |
| CERCLA | Comprehensive Environmental Response Compensation and Liability Act |
| CFR | Code of Federal Regulations |
| COC | Cleveland Open Cup |
| DOT | Department of Transportation |
| EPCRA | Emergency Planning and Community Right-to-Know Act (aka SARA) |
| IARC | International Agency for Research on Cancer |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RCRA | Resource Conservation and Recovery Act |
| REC | Recommended |
| REL | Recommended Exposure Limit |
| SARA | Superfund Amendments and Reauthorization Act of 1986 |
| STEL | Short-Term Exposure Limit |
| TCLP | Toxicity Characteristics Leaching Procedure |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| VOC | Volatile Organic Compounds |
| List of abbreviatio | ns Not available. |

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 upplicable, 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 | | |
| | in intercourse/unitercourselies | |
| 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 refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions | | |
| condition PROC8a-Transfer of substance o | tion in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment r mixture (charging and discharging) at non-dedicated facilities r mixture (charging and discharging) at dedicated facilities | |
| | | |
| ERC5-Use at industrial site leading to inclusion into/onto article ERC8c-Widespread use leading to inclusion into/onto article (indoor) | | |
| | | |
| Additional information on prod | | |
| In section 2 of the SDS as well as on the label, the classification of the mixture is provided. | | |
| Most of the water based inks are "not classified". | | |
| The classification of the mixture is based on the individuel ingredients and their concentration within the mixture. | | |
| All ingredients contributing to the classification are stated in Section 3 of the SDS. | | |
| Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS. | | |
| The product may contain sensitizing ingredients that may cause allergic reaction to certain people. | | |
| Section 2 of the SDS states these | | |
| I | WB01 English.pdf | |