

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

CN046Series

designation of the mixture

Registration number

Synonyms None.

Issue date 01-Apr-2015

Version number 06

Revision date 17-Mar-2017 **Supersedes date** 06-May-2016

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified usesInkjet printingUses advised againstNone known.Company identificationHP Inc UK Limited

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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: 1-(2-hydroxyethyl)-2-pyrrolidone, 2-pyrrolidone, Water

Hazard pictograms None.

Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Supplemental label Contains 1,2-Benzisothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one. May produce an allergic

information 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

Material name: CN046Series SDS UK

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General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|---------------------------------------|------------|------------------------|------------------------|-----------|-------|
| Water | 75-85 | 7732-18-5 231-791-2 | - | - | |
| Classification: - | | | | | |
| 1-(2-hydroxyethyl)-2-pyrrolidone | < 10 | 3445-11-2 222-359-4 | 01-2119977089-21-XXXX | - | |
| Classification: - | | | | | |
| 2-pyrrolidone | < 7.5 | 616-45-5 210-483-1 | 01-2119475471-37-XXXX | - | |
| Classification: Eye Irrit. 2;H | 319 | | | | |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol | <1 | 126-86-3 204-809-1 | - | - | |
| Classification: Skin Sens. 18 | 3;H317, Ey | e Dam. 1;H318, Aqı | uatic Chronic 3;H412 | | |

Composition comments This ink supply contains an aqueous ink formulation.

SECTION 4: First aid measures

General information Wash affected areas thoroughly with mild soap and water.

4.1. Description of first aid measures

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

4.3. Indication of any immediate medical attention

and special treatment

needed

Not available.

Not available.

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing

Dry chemical, CO2, water spray or regular foam.

media

Unsuitable extinguishing None known.

media

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.

Material name: CN046Series SDS UK 2/8

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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

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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).

Not available.

Recommended monitoring

procedures

Derived no-effect level (DNEL)

| Components | Туре | Route | Value | Form |
|--|----------------|------------|-----------------|---------------------------|
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | Consumers | Dermal | 0.75 mg/kg | Systemic short term |
| | | Dermal | 0.25 mg/kg | Systemic long term |
| | | Inhalation | 1.29 mg/m3 | Systemic short term |
| | | Inhalation | 0.43 mg/m3 | Systemic long term |
| | | Oral | 0.75 mg/kg | Systemic short term |
| | | Oral | 0.25 mg/kg | Systemic long term |
| | Workers | Dermal | 1.5 mg/kg | Systemic short term |
| | | Dermal | 0.5 mg/kg | Systemic long term |
| | | Inhalation | 5.28 mg/m3 | Systemic short term |
| | | Inhalation | 1.76 mg/m3 | Systemic long term |
| 2-pyrrolidone (CAS 616-45-5) | Consumers | Dermal | 6 mg/kg bw/d | Systemic long term |
| | | Dermal | 167 mg/kg bw/d | Systemic acute short term |
| | | Inhalation | 17.1 mg/m3 | Systemic long term |
| | | Oral | 5.2 mg/kg bw/d | Systemic long term |
| | | Oral | 33.3 mg/kg bw/d | Systemic acute short term |
| | Workers | Dermal | 277 mg/kg bw/d | Systemic acute short term |
| | | Dermal | 10 mg/kg bw/d | Systemic long term |
| | | Inhalation | 57.8 mg/m3 | Systemic long term |
| dicted no effect concentrations (PNECs) | | | | |
| Components | Туре | Route | Value | Form |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | Not applicable | Freshwater | 0.04 mg/l | |

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| Components | Туре | Route | Value | Form |
|--|----------------|--------------|-------------|------------------------|
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol (CAS 126-86-3) | Not applicable | Freshwater | 0.04 mg/l | |
| | | Intermittent | 0.4 mg/l | Releases |
| | | Marine water | 0.004 mg/l | |
| | | Sediment | 0.32 mg/kg | Freshwater |
| | | Sediment | 0.032 mg/kg | Marine water |
| | | Soil | 0.028 mg/kg | |
| | | STP | 7 mg/l | Sewage Treatment Plant |
| 2-pyrrolidone (CAS 616-45-5) | Not applicable | Freshwater | 0.5 mg/l | |

Material name: CN046Series SDS UK

12092 Version No.: 06 Revision date: 17-Mar-2017 Print date: 17-Mar-2017 **Components Route Value Form Type** 0.5 mg/l Releases Intermittent 0.05 mg/l Marine water Sediment 0.4205 mg/kg Freshwater Soil 0.0612 mg/kg STP Sewage Treatment Plant 10 mg/l

Exposure guidelines Exposure limits have not been established for this product.

8.2. Exposure controls

Use in a well ventilated area. Appropriate engineering

controls

Individual protection measures, such as personal protective equipment

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

Eye/face protection Not available.

Skin protection

- Hand protection Not available. - Other Not available. Not available. **Respiratory protection** Thermal hazards Not available.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure

controls

Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. Color Cvan

Odor Not available. **Odor threshold** Not available. 8.5 - 9.5рH Melting point/freezing point Not available. Initial boiling point and Not available.

boiling range Flash point

> 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup US EPA Method 1020

Evaporation rate Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive 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** Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. 3.2 - 3.3 cP **Viscosity Explosive properties** Not available. **Oxidizing properties** Not available.

9.2. Other information

VOC (Weight %) < 291 q/L

Material name: CN046Series SDS UK

12092 Version No.: 06 Revision date: 17-Mar-2017 Print date: 17-Mar-2017 **SECTION 10: Stability and reactivity**

10.1. Reactivity Not available.

Stable under recommended storage conditions. 10.2. Chemical stability

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 Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

dioxide and/or low molecular weight hydrocarbons. decomposition products

SECTION 11: Toxicological information

General information Not available. 11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Skin corrosion/irritation Serious eye damage/eye Based on available data, the classification criteria are not met. Not classified as an irritant according to, OECD 405. Based on available data, the classification

irritation

criteria are not met.

Respiratory sensitization Skin sensitization

Non irritant in rabbit (OECD 404) Based on available data, the classification criteria are not met.

6500 mg/kg

Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity 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

Rat 6500 mg/kg

Mixture versus substance

information

Not available.

Other information Complete toxicity data are not available for this specific formulation

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

SECTION 12: Ecological information

12.1. Toxicity This product is highly soluble in water.

Components **Species** Test Results

2-pyrrolidone (CAS 616-45-5)

Aquatic

EC50 Crustacea 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

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil Not available

12.5. Results of PBT Not a PBT or vPvB substance or mixture.

and vPvB assessment

Material name: CN046Series SDS UK

-0.85

Version No.: 06 Revision date: 17-Mar-2017 Print date: 17-Mar-2017 **12.6. Other adverse effects** Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual wasteNot available.Contaminated packagingNot available.EU waste codeNot available.

Disposal Do not allow this material to drain into sewers/water supplies.

methods/information 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.

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

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

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 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

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization

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.

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Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not regulated.

Directive 94/33/EC on 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

Other information This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830. Classification

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

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

15.2. Chemical safety

assessment

Not available.

See attached SUMI or GEIS document, if applicable.

SECTION 16: Other information

References

Information on evaluation method leading to the

classification of mixture

Not available. Not available

Issue date 01-Apr-2015

Revision information 1. Product and Company Identification: Alternate Trade Names

SECTION 2: Hazards identification: Disposal

SECTION 2: Hazards identification: GHS Signal Words SECTION 2: Hazards identification: GHS Symbols

Composition/Information on Ingredients

SECTION 11: Toxicological information: Skin contact SECTION 15: Regulatory information: Other information

Training information Not available.

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> current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as quaranteeing 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.

Manufacturer information HP Inc.

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Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

Material name: CN046Series SDS UK

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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 abbreviations Not available.

Material name: CN046Series SDS UK

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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.

| 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 Equipment, hygiene and health evaluation

Wear appropriate chemical resistent gloves: see section 8 of the SDS.

Wear appropriate chemical resistent clothing.

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 equipment as required.

Wash hands before breaks and after work.

Keep good industrial hygiene and safety practice.

Use only with adequate ventilation.

Do no eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

Store at room temperature.





Environmental measures

Do not allow this material to drain into sewers/water supplies.

Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

Ensure collection and disposal with appropriately licenced waste contractor.

Use descriptors

IS-Use at industrial sites

PW-Widespread use by professional workers

SU7-Printing and reproduction media

PC18-Inks and Toners

PROC1-Chemical production or 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

PROC3- Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b-Transfer of substance or 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 product composition

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 ingredients where applicable.