

## SAFETY DATA SHEET

1. Identification

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. \*\*\*

Product identifier C4992Series

Other means of identification None.

**Recommended use** Inkjet printing **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

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### 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Reproductive toxicity (fertility, the unborn Category 1B

child)

Environmental hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** May damage fertility or the unborn child.

**Precautionary statement** 

**Prevention** Wear protective gloves/protective clothing/eye protection. Do not handle until all safety

precautions have been read and understood. Obtain special instructions before use.

**Response** IF exposed or concerned: Get medical advice/attention.

Storage Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not

result in classification

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.

**Supplemental information** 2-pyrrolidone: Specific Concentration Limits, Reproductive toxicity Category 1B, fertility or the

unborn child 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an

animal study. See Section 11.

Material name: C4992Series SDS VIETNAM

9444 Version #: 09 Revision date: 30-May-2020 Issue date: 01-Nov-2016

## 3. Composition/information on ingredients

#### **Mixtures**

Hazardous co	mponents
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Chemical name	Common name and synonyms	CAS-No. / EC No.	%
2-pyrrolidone		616-45-5	<5
		210-483-1	

# Non-hazardous components

Chemical name	Common name and synonyms	CAS-No. / EC No.	%
Water		7732-18-5 231-791-2	80-90
Aliphatic diol		Proprietary 211-074-0	<10
Substituted napthalenesulfonate salt #8		Proprietary -	<2.5
Substituted xanthylium salt #1		Proprietary	<1

### **Composition comments**

This ink supply contains an aqueous ink formulation.

2-pyrrolidone: Specific Concentration Limit 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11.

### 4. First-aid measures

**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.

Most important

symptoms/effects, acute and

delayed

Not available.

### 5. Fire-fighting measures

### Suitable extinguishing media

Unsuitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

None known.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

and precautions for firefighters

Not available.

Specific methods None established.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

Methods and materials 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.

**Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

## 7. Handling and storage

Precautions for safe handling Conditions for safe storage,

Avoid contact with skin, eyes and clothing.

including any incompatibilities

Keep out of the reach of children. Keep away from excessive heat or cold.

## 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values Exposure guidelines No biological exposure limits noted for the ingredient(s). Exposure limits have not been established for this product.

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Appropriate engineering

Use in a well ventilated area. controls Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Not required under intended use.

Skin protection

**Hand protection** Not available.

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

For use other than intended use (such as in the event of a large spill), goggles and respirators may Respiratory protection

be required.

Thermal hazards Not available

General hygiene Handle in accordance with good industrial hygiene and safety practice.

considerations

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

**Form** Not available. Color Magenta Odor Not available. **Odor threshold** Not available.

pН 7 - 8

Melting point/freezing point Not available. Initial boiling point and boiling Not determined

range

> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup Flash point

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

Flammability limit - lower

Not determined

(%)

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure Not determined Vapor density >= 1 (air = 1.0)

Solubility(ies)

Solubility (water) Soluble in water Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Viscosity Not available.

Other information

**Oxidizing properties** Not determined 4 % estimated Percent volatile VOC < 143 g/l

# 10. Stability and reactivity

Not available. Reactivity

Stable under recommended storage conditions. **Chemical stability** 

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid Not available.

Incompatible materials Incompatible with strong bases and oxidizing agents.

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

products dioxide and/or low molecular weight hydrocarbons.

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## 11. Toxicological information

#### 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 related to the physical, chemical and toxicological characteristics

Not available

### Information on toxicological effects

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

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

<u>Acute</u>

Oral LD50

Rat > 5000 mg/kg

Substituted xanthylium salt #1

Acute Oral

LD50 Rat <= 10000 mg/kg

Skin corrosion/irritation

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

Serious eye damage/eye

irritation

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

Respiratory or skin sensitization

**Respiratory sensitization**Based on available data, the classification criteria are not met. **Skin sensitization**Based on available data, the classification criteria are not met.

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

May damage fertility or the unborn child.

2-pyrrolidone: This component showed developmental effects only at high doses that were toxic to pregnant test animals (OECD Testing Guideline 414: Prenatal Developmental Toxicity Study). Uptake by people of small doses is not expected to cause developmental toxicity. This component has not caused adverse effects on sexual function or damage to fertility in an animal study (OECD

Testing Guideline 443: Extended One-Generation Reproductive Toxicity Study).

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.

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

### 12. Ecological information

### **Ecotoxicity**

Product	Species	Test Results

C4992Series
Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85

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Partition coefficient n-octanol / water (log Kow)

Aliphatic diol -0.106

Mobility in soil Not available.

Other adverse effects 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.

Waste from residues / unused

products

Not available.

Contaminated packaging Not available.

## 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.

**IATA** 

**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.

### 15. Regulatory information

**National regulations** 

Banned Chemicals (Decree 113/2017/ND-CP, Annex III, 9 October 2017), as amended

Not listed.

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Chemicals Subject to Conditional Production & Trading Requirements ((Decree 113/2017/ND-CP, Annex I, 9 October 2017), as amended

Not listed.

Chemicals That Must Be Declared (Decree 113/2017/ND-CP, Annex V, 9 October 2017), as amended

Not regulated.

CWC (Decree 38/2014/ND-CP, Mgmt. of chemicals under the Convention on the Prohibition of the Devel., Prod., Stockpiling, Use and Destruction of Chemical Weapons, Sched. 1-3, May 6, 2014), as amended

Not regulated.

Drug Precursors (Decree 82/2013/ND-CP on Promulgating List of Narcotics, Psychotropic Substances and Precursors, List IV, amended by Decree 126/2015/ND-CP, 9 December 2015), as amended

Not regulated.

Hazardous Chemicals Prevention, Response Plans & Safety Requirements (Decree 113/2017/ND-CP, Annex IV, Table 1, 9 October 2017), as amended

Not listed

Ozone Depleting Substances (ODS) (Joint Circular No. 14/2005/TTLT-BTM-BTNMT of July 11, 2005), as amended Not regulated.

Restricted Chemicals (Decree 113/2017/ND-CP, Annex II, 9 October 2017), as amended

Not listed.

International 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.

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Montreal Protocol** 

Not applicable.

**Kyoto protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

## 16. Other information, including date of preparation or last revision

Issue date01-Nov-2016Revision date30-May-2020

Version #

Disclaimer

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This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information 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.

Revision information

1. Product and Company Identification: Alternate Trade Names

Hazard(s) identification: Supplemental information

3. Composition / Information on Ingredients: Disclosure Overrides Composition/information on ingredients: Composition comments

Toxicological information: Reproductivity

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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

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