



# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

<b>Important information</b>	*** 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. ***	
<b>A. Product name</b>	2LL72Series	
<b>Other means of identification</b>	Not available.	
<b>B. Recommended use and Limitations on use</b>		
<b>Recommended use</b>	Inkjet printing	
<b>Limitations on use</b>	Can only be used for printing on soft signage and promotional items. Should not be applied to clothing textiles.	
<b>C. Supplier information</b>		
	HP Korea House 23-6 Yoido-dong Youngdeungpo-gu Seoul 150-742, Korea	
<b>Telephone</b>	(02) 2199-0114	
<b>HP Inc. health effects line</b>		
(Toll-free within the US)	1-800-457-4209	
(Direct)	1-760-710-0048	
<b>HP Inc. Customer Care Line</b>		
(Toll-free within the US)	1-800-474-6836	
(Direct)	1-208-323-2551	
<b>Email:</b>	hpcustomer.inquiries@hp.com	

## 2. Hazards identification

### A. Hazard category/Classification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Sensitization, skin	Category 1
<b>Environmental hazards</b>	Not classified.	

### B. Warning label items including precautionary statement

• Pictogram



• Signal word

Warning

• Hazard statement

H317

May cause an allergic skin reaction.

• Precautionary statement

**Prevention**

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P261

Avoid breathing dust/fume/mist/vapors.

P272

Contaminated work clothing should not be allowed out of the workplace.

**Response**

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364

Take off contaminated clothing and wash it before reuse.

**Disposal**

P501

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

**C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)**

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.

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**3. Composition/information on ingredients**

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
Water		7732-18-5	KE-35400	75-80
1-amino-4-hydroxy-2-phenoxyanthraquinone		17418-58-5	17418-58-5	<2.5
2-pyrrolidone		616-45-5	KE-29978	<2.5
N,N-diethyl-3-methyl-4-[(5-nitro-1,3-thiazol-2-yl)diazenyl]aniline		70693-64-0	70693-64-0	<2.5
1,2-Benzisothiazolin-3-one		2634-33-5	KE-02680	<0.05
2-methyl-2h-isothiazol-3-one		2682-20-4	KE-24316, 2012-1-645	<0.05

**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.

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**4. First aid measures**

**A. In case of 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.

**B. In case of skin contact**

Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

**C. In case of inhalation**

Move to fresh air. If symptoms persist, get medical attention.

**D. In case of swallowing**

If ingestion of a large amount does occur, seek medical attention.

**E. Note to physician**

Not available.

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**5. Fire-fighting measures**

**A. Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media**

Dry chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media**

None known.

**B. Specific hazards arising from the chemical (example: hazardous combustion products)**

Not available.

**C. Specific methods of fire-fighting**

Not available.

**Specific methods**

None established.

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**6. Accidental release measures**

**A. Personal precautions, protective equipment and emergency measures**

Wear appropriate personal protective equipment.

**B. Environmental precautions**

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

**C. 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.

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**7. Handling and storage**

**A. Precautions for safe handling**

Avoid contact with skin, eyes and clothing.

**B. Conditions for safe storage (including any incompatibilities)** Keep out of the reach of children. Keep away from excessive heat or cold.

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## 8. Exposure controls/personal protection

### A. Exposure limit values, biological limit values, etc

No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

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

**B. Appropriate engineering controls** Use in a well ventilated area.

### C. Personal protective equipment

• **Respiratory protection** Not available.

• **Eye protection** Wear safety glasses with side shields (or goggles).

• **Hand protection** Wear appropriate chemical resistant gloves.

• **Body protection** Use personal protective equipment to minimize exposure to skin and eye.

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

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## 9. Physical and chemical properties

### A. Appearance

**Physical state** Liquid.

**Form** Liquid.

**Color** Black.

**B. Odor** Not available.

**C. Odor threshold** Not available.

**D. pH** 8.2

**E. Melting point/freezing point** Not available.

**F. Boiling point, initial boiling point, and boiling range** Not available.

**G. Flash point** 336.0 °F (168.9 °C)

**H. Evaporation rate** Not available.

**I. Flammability (solid, gas)** Not available.

### J. Upper/lower limit on flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**K. Vapor pressure** Not available.

### L. Solubility

**Solubility (water)** Not available.

**M. Vapor density** Not available.

**N. Specific gravity** Not available.

**O. n-octanol/water partition coefficient** Not available.

**P. Auto-ignition temperature** Not available.

**Q. Decomposition temperature** Not available.

**R. Viscosity** Not available.

**S. Molecular weight** Not available.

### Other data

**Oxidizing properties** Not determined

**VOC** 9.47 %

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## 10. Stability and reactivity

### A. Stability and hazardous reaction potential

**Stability** Stable under recommended storage conditions.

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<b>Hazardous reaction potential</b>	Will not occur.
<b>B. Conditions to avoid (e.g. static discharge, shock or vibration, etc)</b>	Not available.
<b>C. Incompatible materials</b>	Incompatible with strong bases and oxidizing agents.
<b>D. Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## 11. Toxicological information

### A. Information on likely routes of exposure

- **Respiratory organs** Inhalation may result in mild irritation to the respiratory system.
- **Skin** May cause sensitization by skin contact.
- **Eyes** Contact with eyes may result in mild irritation.
- **Mouth** Ingestion is not a likely route of exposure.

### B. Information on health hazards

- **Acute toxicity (list all possible routes of exposure)** Based on available data, the classification criteria are not met.

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
• <b>Corrosivity or irritation to the skin</b>	Based on available data, the classification criteria are not met.	
• <b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.	
• <b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.	
• <b>Skin sensitization</b>	May cause sensitization by skin contact.	
• <b>Carcinogenic properties /Carcinogenicity</b>	Based on available data, the classification criteria are not met.	
• <b>Mutagenic properties /Mutagenicity</b>	Based on available data, the classification criteria are not met.	
• <b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.	
• <b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.	
• <b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
• <b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.	

## 12. Ecological information

### A. Ecotoxicity

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
<b>Aquatic</b>		
Crustacea	EC50 Water flea ( <i>Daphnia pulex</i> )	13.21 mg/l, 48 hours

**B. Persistence/degradability** Not available.

### C. Bioaccumulative potential

<b>Octanol/water partition coefficient log Kow</b>	
2-pyrrolidone	-0.85

**D. Mobility in soil** Not available.

E. Other adverse effects Not available.

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### 13. Disposal considerations

**A. Method of disposal** Do not dispose of together with general office waste. 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 an appropriately licensed waste contractor.  
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>.

**B. Disposal considerations (including disposal of contaminated containers or packaging)** Not available.

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### 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.

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## 15. Regulatory information

### A. Restrictions under the Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacturing

Not regulated.

#### Harmful Substances Requiring Permission for Manufacture or Use

Not regulated.

#### Controlled Hazardous Substances

Not regulated.

#### Harmful Substances Requiring Special Medical Examination

Not regulated.

#### Workplace Environmental Monitoring Harmful Materials

Not regulated.

#### Occupational Exposure Limit

Not regulated.

### B. Restrictions under the Chemicals Control Law (Previously Toxic Chemicals Control Law)

#### Accidental Release Prevention Substances

Not regulated.

#### Act on the Registration and Evaluation of Chemicals

##### Banned Toxic Chemicals

Not regulated.

##### Designated Existing Chemicals Subject to Registration (PEC) (MoE No. 2015-92)

1,2-Benzisothiazolin-3-one (CAS 2634-33-5)

2-methyl-2h-isothiazol-3-one (CAS 2682-20-4)

##### Restricted Chemical Substances

Not regulated.

##### Toxic Chemicals

Not regulated.

### C. Restrictions under the Dangerous Substance Safety Management Act

### D. Restrictions under the Wastes Control Act

#### Halogenated Materials in Waste Organic Solvents

Not regulated.

#### Hazardous Substances

Not regulated.

### E. Restrictions under other foreign or domestic laws

#### Clean Air Conservation Act

##### Air Pollutants

Not regulated.

##### Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides (Rules on PIC, MoE No. 2014-252, Dec. 31, 2014; Standards for Pesticides, RDA No. 2014-26), as amended

Not listed.

##### Specific Air Pollutants

Not regulated.

#### 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.

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## 16. Other information

### A. Source of information

Not available.

### B. Issue date

14-Apr-2019

### C. Number of revisions and date of most recent revision

09-Oct-2020 (04 revision)

### D. Other

Not available.

### 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.

## Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds