

MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

*** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any Important information

unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action

being taken by HP. ***

A. Product name 4UV84Series Other means of identification Not available. B. Recommended use and Limitations on use Recommended use Inkjet printing

C. Supplier information

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2. Hazards identification

A. Hazard category/Classification

Physical hazards Not classified. **Health hazards** Not classified. Not classified. **Environmental hazards**

B. Warning label items including precautionary statement

None. Pictogram Signal word None. Hazard statement None. Precautionary statement None.

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.

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as

carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

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.

3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
Water		7732-18-5	KE-35400	60-80
1,2-butanediol		584-03-2	KE-03786	<20

MSDS KOREA 1/7

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
2-pyrrolidone		616-45-5	KE-29978	<3

Composition comments

This ink supply contains an aqueous ink formulation.

Carbon black is present only in a bound form in this preparation.

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

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at A. In case of eye contact

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. If ingestion of a large amount does occur, seek medical attention. D. In case of swallowing

Not available. E. Note to physician

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.

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.

7. Handling and storage

A. Precautions for safe

incompatibilities)

handling

Avoid contact with skin, eyes and clothing.

B. Conditions for safe storage (including any

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

8. Exposure controls/personal protection

A. Exposure limit values, biological limit values, etc

No exposure limits noted for ingredient(s).

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

B. Appropriate engineering

controls

Use in a well ventilated area.

C. Personal protective equipment

Not available. Respiratory protection Eye protection Not available. · Hand protection Not available.

Not available. Body protection

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

Under extreme work place conditions, ink vapors may condense outside of the printing system.

The Waste Profile Datasheet for your printer at

https://hplatexknowledgecenter.com/applications/wasteprofiles contains more information on how

to properly handle and dispose of the condensate.

9. Physical and chemical properties

liquid A. Appearance Physical state Liquid. Form Liquid. Color Black.

Not available. B. Odor Not available. C. Odor threshold

D. pH 8.4

E. Melting point/freezing point Not available. Not available. F. Boiling point, initial boiling

point, and boiling range

343.0 °F (172.8 °C) Pensky-Martens Closed Cup estimated G. Flash point

Not available. H. Evaporation rate Not available. I. Flammability (solid, gas)

J. Upper/lower limit on flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available. **Explosive limit - lower (%)** Explosive limit - upper (%) Not available. K. Vapor pressure

Not available.

L. Solubility

Solubility (water) Not available. M. Vapor density Not available. Not available. N. Specific gravity Not available. O. n-octanol/water partition

coefficient

Not available. P. Auto-ignition temperature Q. Decomposition temperature Not available. R. Viscosity Not available. Not available. S. Molecular weight

Other data

Not determined Oxidizing properties

VOC < 266 g/I EPA method 24

10. Stability and reactivity

A. Stability and hazardous reaction potential

Stability Stable under recommended storage conditions.

Hazardous reaction

potential

Will not occur.

B. Conditions to avoid (e.g. static discharge, shock or

vibration, etc)

Not available.

Incompatible with strong bases and oxidizing agents. C. Incompatible materials

D. Hazardous decomposition

products

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 Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Skin Contact with skin may result in mild irritation.
 Eyes Contact with eyes may result in mild irritation.

Mouth Health injuries are not known or expected under normal use.

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)

Acute Oral

LD50 Rat > 5000 mg/kg

Corrosivity or irritation to

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

the skin

• Serious eye damage/eye irritation

Not classified as an irritant according to, OECD 405.

Non-sensitizer- Local Lymph Node Assay (OECD 429).

Respiratory sensitization

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

Skin sensitizationCarcinogenic properties

Passad on available data, the classification criteria are not mot

Carcinogenic properties
 /Carcinogenicity

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

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

 Mutagenic properties /Mutagenicity Based on available data, the classification criteria are not met.

Reproductive toxicity

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

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.

12. Ecological information

A. Ecotoxicity

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Aquatic

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

B. Persistence/degradability

Not available.

C. Bioaccumulative potential

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85

D. Mobility in soil Not available.E. Other adverse effects Not available.

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.

MSDS KOREA

B. Disposal considerations (including disposal of contaminated containers or 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

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)

Not listed

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

The components of this product are reported in the following inventories: United States of America,

European Union, Switzerland, Canada, Australia and New Zealand.

16. Other information

A. Source of information Not available. 26-Jan-2021 B. Issue date C. Number of revisions and Not applicable. date of most recent revision

D. Other

Not available.

Disclaimer

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Revision information

1. Product and Company Identification: Alternate Trade Names

Toxicological information: Skin contact

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