



SAFETY DATA SHEET

1. Identification of the chemical and information about the manufacturer or supplier

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1.1 Identification of the chemical products

1.1.1 Technical name 4UV21Series

Other means of identification None.

1.1.2 Recommended use of the chemical and restrictions on use

Recommended use Inkjet printing

Limitations on use None known.

1.2 Manufacturer/Importer/Supplier/Distributor information

1.2.1 Manufacturer

HP Inc. Limited Liability Company
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2. Hazard(s) identification

2.1. Hazard identification of chemical product as a whole (classification according to GOST 12.1.007-76 and GHS)

Classification according to GOST 12.1.007-76 Not available.

GHS classification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

2.2 Labeling elements in compliance with GOST 31340-2013

2.2.1 Signal word None.

2.2.2 Symbols None.

2.2.3 Hazard statement Not available.

Precautionary statement

Prevention Not available.

Response Not available.

Storage Not available.

Disposal Not available.

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.

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**3.1 Information on product as a whole**

3.1.1 Chemical name (IUPAC) 4UV21Series

3.1.2 Chemical formula Not available.

3.1.3 General description of the composition (taking into account the brand assortment; preparation method) Not available.

3.2 Components

Components	Concentration by weight (%)	Hygienic standards in the working area			CAS-No.	EC No.
		MAC, mg/m ³	TSEL, mg/m ³	Hazard classification		
Water	60-80	None.	None.		7732-18-5	231-791-2
1,2-butanediol	<20	None.	None.		584-03-2	209-527-2
2-pyrrolidone	<3	10 Aerosol.	None.	4	616-45-5	210-483-1
Joncryl HPD 71 Potassium Salt (aka HPD671)	<1	None.	None.		77045-86-4	-
1,2-Benzisothiazolin-3-one (Benzisothiazolinone)	<0.05	None.	None.		2634-33-5	220-120-9
Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one (Mixture of Chloromethylisothiazolinone)	<0.0015	None.	None.		55965-84-9	-

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**4.1. Observed symptoms**

4.1.1 In case of exposure via inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

4.1.2 In contact with skin Contact with skin may result in mild irritation.

4.1.3 In contact with eyes Contact with eyes may result in mild irritation.

4.1.4 In case of exposure via ingestion Health injuries are not known or expected under normal use.

4.2 First-aid measures to be provided to victims

4.2.1 In case of exposure via inhalation Move to fresh air. If symptoms persist, get medical attention.

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

4.2.3 In contact with eyes 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.

4.2.4 In case of exposure via ingestion If ingestion of a large amount does occur, seek medical attention.

4.2.5 Contraindications Not available.

5. Fire-fighting and explosion safety measures and means

5.1 General characteristics of fire-explosion properties	Not available.
5.2 Fire-explosion indicators	Not available.
5.3 Combustion and/or thermal destruction products and hazards arising from these	Not available.
5.4 Recommended extinguishing media	Dry chemical, CO2, water spray or regular foam.
5.5 Forbidden extinguishing media	None known.
5.6 Special protective equipment for firefighters	Not available.
5.7 Specific extinguishing methods	None established.

6. Accident and emergency prevention and response measures and their consequences

6.1 Measures to prevent harmful effects on people, environment, buildings, constructions, etc. in case of accidents and emergencies

6.1.1 General required actions in case of an accident or emergency Wear appropriate personal protective equipment.

6.1.2 Personal protection equipment in case of the accident Not available.

6.2 Procedures for the elimination of accidents and emergencies

6.2.1 Procedures in case of leaks, spills, splashes Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

6.2.2 Actions in case of fire Not available.

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. Storage and handling requirements of chemicals during loading and unloading

7.1 Safety precautions when handling chemical products

7.1.1 Technical safety measures Not available.

7.1.2 Environmental protection measures Avoid contact with eyes, skin, and clothing.

7.1.3 Recommended safe handling and transportation advice Avoid contact with skin, eyes and clothing.

7.2 Chemical storage requirements

7.2.1 Terms and conditions for safe storage Not available.

7.2.2 Packaging Not available.

7.3 Safety measures and storage requirements at domestic use Keep out of the reach of children.
Keep away from excessive heat or cold.

8. Equipment for monitoring exposure and personal protective equipment

8.1 Parameters of the working area that require monitoring

Occupational exposure limits

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended

Components	Type	Value	Form
2-pyrrolidone (CAS 616-45-5)	Ceiling	10 mg/m3	Aerosol.

8.2 Measures to ensure the content of harmful substances in the working area below the exposure level concentration	Exposure limits have not been established for this product.
Appropriate engineering controls	Use in a well ventilated area.
8.3 Worker personal protective equipment	
8.3.1 General recommendations	Use personal protective equipment to minimize exposure to skin and eye.
8.3.2 Respiratory protection	Not available.
8.3.3 Protective equipment	
Eye/face protection	Not available.
Hand protection	Not available.
Other	Not available.
Thermal hazards	Not available.
8.3.4 Personal protection equipment in case of domestic use	Not applicable.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Under extreme work place conditions, ink vapors may condense outside of the printing system. The Waste Profile Datasheet for your printer at https://hpllatexknowledgecenter.com/applications/wasteprofiles contains more information on how to properly handle and dispose of the condensate.

9. Physical and chemical properties

9.1 Physical appearance	liquid
Physical state	Liquid.
Form	Liquid.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
9.2 Parameters characterizing basic properties of the product	
pH	8.4
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	343.0 °F (172.8 °C) Pensky-Martens Closed Cup estimated
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Density	1.05 g/cm ³
Viscosity	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Other data	
Oxidizing properties	Not determined
VOC	< 266 g/l EPA method 24

10. Stability and reactivity

10.1 Chemical stability	Stable under recommended storage conditions.
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Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
10.2 Reactivity	Not available.
10.3 Conditions to avoid	Not available.
Possibility of hazardous reactions	Will not occur.
Incompatible materials	Incompatible with strong bases and oxidizing agents.

11. Toxicological information

11.1 General exposure characteristics	Not available.	
11.2 Routes of exposure	Not available.	
11.3 Affected/target organs, tissues and systems of humans		
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.	
11.4 Information on health hazards in case of direct exposure to the product and its effect		
Effect on upper respiratory tract irritation	Not available.	
Respiratory or skin sensitization	Not available.	
Respiratory sensitization	Based on available data, the classification criteria are not met.	
Skin sensitization	Non-sensitizer- Local Lymph Node Assay (OECD 429).	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Not classified as an irritant according to, OECD 405.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
11.5 Information on long-term hazardous health effects		
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.	
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).	
Mutagenicity	Based on available data, the classification criteria are not met.	
Cumulativeness	Not available.	
Chronic effects	Not available.	
11.6 Acute toxicity data	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
Further 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.	

12. Environmental impact information

12.1 General description of the impact on the environment	Not available.
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12.2 Routes of exposure to environment Not available.

12.3 The most important characteristics of the environmental impact

12.3.1 Hygienic standards Not available.

12.3.2 Ecotoxicity

Components	Species	Test Results
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2-pyrrolidone (CAS 616-45-5)

Aquatic

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

12.3.3 Biomigration and transformation of the environment due to the biodegradation or other processes

Persistence and degradability Not available.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85

Mobility in soil Not available.

Other adverse effects Not available.

13. Recommendations for waste (residues) disposal

13.1 Safety precautions when handling the waste generated during use, storage, transportation 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.

13.2 Information on the location and disposal methods, recycling or disposal of product waste, including packaging Not available.

13.3 Recommendation on the waste disposal generated during its domestic use 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. National and international regulatory information

15.1 National legislation

15.1.1 Laws of the Russian Federation Not available.

15.1.2 Information about the documentation, regulatory requirements for the protection of human health and environment

Sanitary-Epidemiological Rules, 1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008

Not listed.

15.2 International Conventions and Agreements The components of this product are reported in the following inventories: United States of America, European Union, Switzerland, Canada, Australia and New Zealand.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

16.1 Information on revision of the SDS

Issue date	22-Apr-2021
Revision date	23-Apr-2021
Version #	02
Previous SDS number	Not applicable.

16.2 List of references used in compiling the safety data sheet Not available.

Disclaimer

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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