



SAFETY DATA SHEET

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

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. ***

1.1 Identification of the chemical products

1.1.1 Technical name 4UU90Series

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

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125171, Moscow
Russian Federation

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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 Warning

2.2.2 Symbols



2.2.3 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.

Storage Not available.

| | | |
|---------------------------------|------|---|
| Disposal | P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| 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. |
| 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) | 4UU90Series |
| 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/m3 | TSEL, mg/m3 | Hazard classification | | |
| Water | 80-90 | None. | None. | | 7732-18-5 | 231-791-2 |
| 2-pyrrolidone | <2.5 | 10 Aerosol. | None. | 4 | 616-45-5 | 210-483-1 |
| Ethoxylated-2,4,7,9-tetramethyl-5-decyn-4,7-diol | <1 | None. | None. | | 9014-85-1 | 689-121-3 |
| 1,2-Benzisothiazolin-3-one | <0.05 | None. | None. | | 2634-33-5 | 220-120-9 |
| 2-methyl-2h-isothiazol-3-one | <0.05 | None. | None. | | 2682-20-4 | 220-239-6 |

| | |
|-----------------------------|---|
| 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

4.1. Observed symptoms

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|---|---|
| 4.1.1 In case of exposure via inhalation | Inhalation may result in mild irritation to the respiratory system. |
| 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 | Ingestion is not a likely route of exposure. |

4.2 First-aid measures to be provided to victims

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|---|---|
| 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

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|---|---|
| 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 | Not available. |
| 8.3.2 Respiratory protection | Not available. |
| 8.3.3 Protective equipment | |
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Hand protection | Wear appropriate chemical resistant gloves. |
| Other | Use personal protective equipment to minimize exposure to skin and eye. |
| 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. |

9. Physical and chemical properties

9.1 Physical appearance

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|-----------------------|----------------|
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Cyan |
| Odor | Not available. |
| Odor threshold | Not available. |

9.2 Parameters characterizing basic properties of the product

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|---|---------------------|
| pH | 8.2 |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | 336.0 °F (168.9 °C) |
| 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/ml |
| Viscosity | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Other data | |
| Oxidizing properties | Not determined |
| VOC | 7.3 % |

10. Stability and reactivity

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|---|---|
| 10.1 Chemical stability | Stable under recommended storage conditions. |
| 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. |

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| 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

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|--|---|
| 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 | May cause sensitization by skin contact. |
| 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. |
| 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. |
| 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 |
|--|---------|----------------|
| 1,2-Benzisothiazolin-3-one (CAS 2634-33-5) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | > 2000 mg/kg |
| Oral | | |
| LD50 | Rat | 490 mg/kg |
| 2-methyl-2h-isothiazol-3-one (CAS 2682-20-4) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | 242 mg/kg |
| Inhalation | | |
| LC50 | Rat | 0.11 mg/l, 4 h |
| Oral | | |
| LD50 | Rat | 120 mg/kg |
| 2-pyrrolidone (CAS 616-45-5) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |

12. Environmental impact information

12.1 General description of the impact on the environment Not available.

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 |
|--|------|---|-------------------------------------|
| 1,2-Benzisothiazolin-3-one (CAS 2634-33-5) | | | |
| <i>Acute</i> | | | |
| Other | EC50 | Pseudokirchnerella subcapitata | 70 - 150 µg/l, 72 h OECD (201) |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia magna | 2.9 mg/l, 48 h (OECD 202) |
| Fish | LC50 | Oncorhynchus mykiss | 2.15 mg/l, 96 h (OECD 203) |
| | | Sheepshead minnow (Cyprinodon variegatus) | 16.7 mg/l, 96 h EPA 540/9-85-006 |
| 2-methyl-2h-isothiazol-3-one (CAS 2682-20-4) | | | |
| <i>Acute</i> | | | |
| Other | EC50 | Pseudokirchnerella subcapitata | 0.138 - 0.22 mg/l, 120 h (OECD 201) |
| <i>Chronic</i> | | | |
| | NOEC | Pseudokirchnerella subcapitata | 0.05 mg/l, 120 h (OECD 201) |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia magna | 1.6 mg/l, 48 h (OECD 202) |
| | LC50 | Daphnia magna | 0.934 mg/l, 48 h (OECD 202) |
| Fish | LC50 | Oncorhynchus mykiss | 4.77 mg/l, 96 h (OECD 203) |
| 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

Bioconcentration factor (BCF)

1,2-Benzisothiazolin-3-one 6.62, (OECD 305)
Species: Bluegill (Lepomis macrochirus)
48.1, Viscera (1972)
2-methyl-2h-isothiazol-3-one Species: Bluegill (Lepomis macrochirus)
5.75, Carcass (1972)
Species: Bluegill (Lepomis macrochirus)

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.
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>.

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

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

16.1 Information on revision of the SDS

| | |
|---------------------|-----------------|
| Issue date | 12-Mar-2019 |
| Revision date | 26-Mar-2021 |
| Version # | 08 |
| 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 |