

SAFETY DATA SHEET



1. Identification

Product identifier 48F-P **HP Identifier:** CV117Serie
Other means of identification None. UFI:
Recommended use Inkjet printing
Recommended restrictions None known.

Manufacturer: HP Inc.
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Palo Alto, CA 94304-1112

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650-857-1501

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(Toll-free within the US) 1-800-457-4209
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Importer/Supplier/Distributor information:
BlueCrest
DMT Solutions Global
37 Executive Drive
Danbury CT 06810

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2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Sensitization, skin Category 1
Reproductive toxicity (fertility, the unborn child) Category 1B
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements



Signal word Danger
Hazard statement May cause an allergic skin reaction. May damage fertility or the unborn child.
Precautionary statement

Prevention	Wear protective gloves/protective clothing/eye protection. Avoid breathing mist/vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Contaminated work clothing should not be allowed out of the workplace.
Response	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical attention/advice.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	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. Complete toxicity data are not available for this specific formulation..
Supplemental information	2-pyrrolidone: OSHA Hazard Communication Standard cut-off value, 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

Mixtures

2-Methyl-2h-isothiazol-3-one (Methylisothiazolinone)	2682-20-4	<0.05
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Composition comments 4. First-aid measures

This ink supply contains an aqueous ink formulation.
This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

2-pyrrolidone: OSHA Hazard Communication Standard cut-off value 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.
*Proprietary

Inhalation

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

Skin contact

Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

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 CO2, water, dry chemical, or foam

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical Not applicable.

Special protective equipment and precautions for firefighters Not available.

Specific methods None established.

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	65-90

2-pyrrolidone	616-45-5	<7.5
Azonaphthalenesulfonate salt*	Proprietary*	<7.5
1,2-Benzisothiazolin-3-one (Benzisothiazolinone)	2634-33-5	<0.05

**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 7.

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

Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes and clothing.

**Conditions for safe storage,
including any incompatibilities**

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

6. Accidental release measures

8. Exposure controls/persono

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Exposure limits have not been established for this product.
Appropriate engineering controls	Use in a well ventilated area.
	uch as personal protective equipment
Eye/face protection	Not available.
Skin protection	
Hand protection	Not available.
Other	Use personal protective equipment to minimize exposure to skin and eye.
Respiratory protection	Not available.
Thermal hazards	Not available.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Not available.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
pH	7.5 - 8.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 200.0 °F (> 93.3 °C) Setaflash Closed cup
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
Upper/lower flammability or explo limits	
Flammability limit - lower (%)	Not determined
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not determined
Vapor density	Not available.
Solubility(ies)	
Solubility (water)	Soluble in water
Partition coefficient n-octanol/water)	Not available.
Auto-ignition temperature	Not determined
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	For other VOC regulatory data/information see Section 15.
Density	1.04 g/cm ³
Oxidizing properties	Not determined
VOC	< 240 g/L

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Not available.
Incompatible materials	Incompatible with strong bases and oxidizing agents.
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

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 May cause an allergic skin reaction.

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

Acute

Dermal

LD50	Rat	> 2000 mg/kg (OECD 402)
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Oral

LD50	Mouse	1150 mg/kg
	Rat	1020 mg/kg
		670 mg/kg (OECD 401)

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

Acute

Dermal

LD50	Rat	242 mg/kg (OECD 402)
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Inhalation

LC50	Rat	0.11 mg/l, 4 h (OECD 403)
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Oral

LD50	Rat	120 mg/kg
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2-pyrrolidone (CAS 616-45-5)

Acute

Oral

LD50	Rat	> 5000 mg/kg
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Skin corrosion/irritation Based on available data, the classification criteria are not met.

Irritation Corrosion - Skin

2-Methyl-2h-isothiazol-3-one (Methylisothiazolinone) Corrosive, rabbit (OECD 404)

1,2-Benzisothiazolin-3-one (Benzisothiazolinone) Irritating (4 h, rabbit)

Serious eye damage/eye Based on available data, the classification criteria are not met. **irritation**

Eye

1,2-Benzisothiazolin-3-one (Benzisothiazolinone) Causes serious eye damage (rabbit)

2-Methyl-2h-isothiazol-3-one (Methylisothiazolinone) Corrosive, based on OECD 404 results

Respiratory or skin sensitization

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

Skin sensitization May cause an allergic skin reaction.

Skin sensitization

1,2-Benzisothiazolin-3-one (Benzisothiazolinone) Causes sensitization (Guinea pig, OECD 406)
2-Methyl-2h-isothiazol-3-one (Methylisothiazolinone) Sensitizing, mice (OECD 429), Sensitizing, guinea pigs (OECD 406)

Germ cell mutagenicity Based on available data, the classification criteria are not met. **Carcinogenicity** Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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
Refer to Section 2 for potential health effects and Section 4 for first aid measures.

12. Ecological information

Ecotoxicity

Product	Species	Test Results
CV117Series		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) > 750 mg/l, 96 hours
Components	Species	Test Results
1,2-Benzisothiazolin-3-one (Benzisothiazolinone) (CAS 2634-33-5)		
<i>Acute</i>		
	EC50	Activated sludge 12.8 mg/l, 3 h (OECD 209)
Other	EC50	Pseudokirchnerella subcapitata 0.11 mg/l, 72 h OECD (201)
	NOEC	Pseudokirchnerella subcapitata 0.055 mg/l, 72 h (OECD 201)
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna 4.4 mg/l, 48 h 2.9 mg/l, 48 h (OECD 202)
Fish	LC50	Oncorhynchus mykiss 2.15 mg/l, 96 h (OECD 203) 0.8 mg/l, 96 h
2-Methyl-2h-isothiazol-3-one (Methylisothiazolinone) (CAS 2682-20-4)		
<i>Acute</i>		
	EC50	Activated sludge 34.6 mg/l (DIN 38412-3)

Other	EC50	Pseudokirchnerella subcapitata	0.445 mg/l, 120 h (OECD 201)
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	1.68 mg/l, 48 h (OECD 202)
Fish	LC50	Rainbow Trout	6 mg/l, 96 h (OECD 203)
Components		Species	Test Results
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.0442 mg/l, 21 d (OECD 211)
Fish	NOEC	Oncorhynchus mykiss	4.93 mg/l, 98 d (OECD 210)
2-pyrrolidone (CAS 616-45-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
Persistence and degradability		Not available.	

Biodegradability

Percent degradation (Aerobic biodegradation-ready)

1,2-Benzisothiazolin-3-one (Benzisothiazolinone)	85 %, Not readily biodegradable (OECD 301C) Test Duration: 63 d
2-Methyl-2h-isothiazol-3-one (Methylisothiazolinone)	54.1 %, (OECD 301B) Test Duration: 29 d

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

1,2-Benzisothiazolin-3-one (Benzisothiazolinone)	0.7 (OECD 117)
2-Methyl-2h-isothiazol-3-one (Methylisothiazolinone)	-0.32 (OECD 107)
2-pyrrolidone	-0.85

Bioconcentration factor (BCF)

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

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

1,2-Benzisothiazolin-3-one (Benzisothiazolinone)	0.97, (OECD 121)
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Other adverse effects Not available.

Disposal instructions 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.

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.

Disposal considerations

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

US federal regulations

TSCA (Toxic Substances Control Act): All ingredients are on the TSCA Chemical Substances Inventory. A substance in this product is the subject of a Significant New Use Rule (SNUR) at 40 CFR 721.10045. The Significant New Use(s) for this substance (P-02-737) is that it cannot be manufactured domestically and that it cannot be processed or used in solid form.
TSCA 12(b) Components: Reporting not required. SNUR substance is present at less than 1 percent in the final product.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Respiratory or skin sensitization
Reproductive toxicity

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No intentionally added HAP substances.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Other information

VOC content (less water, less exempt compounds) = < 898 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)

Clean Air Act (CAA)

No intentionally added HAPS substances

Regulatory information

HP complies with chemical regulatory requirements in chemical substance notification laws, where applicable. All chemical substances are notified or exempt from notification or listed in the inventory as existing substances in the following countries: US (TSCA), Canada (DSL/NDSL), Australia (AICIS), Japan (ISHL, ENCS), Philippines (PICCS), New Zealand (NZIoC), Russia and China (IECSC). For guidance on importation and/or additional requirements for registration schemes such as EAEU, EU, South Korea, Turkey, UK, India and Taiwan, please contact the Sustainability and Compliance Center (sustainability@hp.com).

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

Issue date 17-Jun-2015

Revision date 01-Jul-2022

Version # 08

Other information This SDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

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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