

SAFETY DATA SHEET

1. Identification

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. ***

Product identifier CZ680Series

Other means of identification None.

Recommended use Inkjet printing **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

HP Inc.

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United States

Telephone 650-857-1501

HP Inc. health effects line

(Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048

HP Inc. Customer Care

Line

(Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551

Email: sustainability@hp.com

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Reproductive toxicity (fertility, the unborn Category 1B

child)

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May damage fertility or the unborn child.

Precautionary statement

Prevention Wear protective gloves/protective clothing/eye protection. Do not handle until all safety

precautions have been read and understood. Obtain special instructions before use.

Response IF exposed or concerned: Get medical advice/attention.

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

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.

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

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	70-80
2-pyrrolidone		616-45-5	<20
Substituted diol*		Proprietary*	<10
Epichlorohydrin based resin*		Proprietary*	<2.5

Composition comments

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

4. First-aid measures

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 For small (incipient) fires, use media such as foam, sand, dry

chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or

foam, applied as a mist or spray.

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up **Environmental precautions**

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.

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

7. 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.

Material name: CZ680Series SDS US

8. Exposure controls/personal protection

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.

Individual protection measures, such 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.

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

Appearance

Physical state Liquid.

Form Not available.

Color Clear.

Odor Not available.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point >230.0 °F (>110.0 °C)

Evaporation rate
Not available.
Flammability (solid, gas)
Not available.
Upper/lower flammability or explosive limits
Explosive limit - lower (%)
Not available.
Explosive limit - upper (%)
Vapor pressure
Not available.
Relative vapor density
Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information For other VOC regulatory data/information see Section 15.

Density 1.03 g/ml @23.9C
Percent volatile 16 % estimated
Specific gravity 1.031 g/cm3

VOC 241 g/l Method 24/ASTM D403-93

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

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

products 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 Contact with skin may result in mild irritation.

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 toxicityBased 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

Skin corrosion/irritation

Serious eye damage/eye
irritation

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

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

Not classified as an irritant according to, OECD 405.

Respiratory or skin sensitization

Respiratory sensitizationBased on available data, the classification criteria are not met.Skin sensitizationNon-sensitizer- Local Lymph Node Assay (OECD 429).

Germ cell mutagenicity

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

Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

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 hazardBased 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

CZ680Series

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) < 400 mg/l, 96 hours

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Aquatic

Acute

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

Epichlorohydrin based resin

Aquatic

Acute

 Crustacea
 EC50
 Daphnia magna
 > 10 - < 100 mg/l, 48 h</th>

 Fish
 LC50
 Danio rerio
 > 10 - < 100 mg/l, 96 h</td>

Persistence and degradability Not available.

Biodegradability

Percent degradation (Aerobic biodegradation-ready)

Epichlorohydrin based resin , Not readily biodegradable.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone -0.85
Epichlorohydrin based resin 0

Bioconcentration factor (BCF)
Epichlorohydrin based resin

0

Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

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.

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.

14. Transport information

DOT

UN number Not regulated as dangerous goods.

UN proper shipping name Not Regulated

Transport hazard class(es)

Not assigned.

Subsidiary risk

Packing group Not assigned.

Environmental hazards

Class

Marine pollutant No

Special precautions for user Not assigned.

IATA

UN number Not regulated as dangerous goods.

Not Regulated

UN proper shipping name

Transport hazard class(es)

Class Not assigned

Subsidiary risk -

Packing group Not assigned

Environmental hazards None

Special precautions for user Not assigned

IMDG

UN number Not regulated as dangerous goods.

Not Regulated

UN proper shipping name

Transport hazard class(es)

Class Not assigned.

Subsidiary risk

Packing group Not assigned.

Transport hazard class(es)

Marine pollutant No

EmS Not assigned. Special precautions for user Not assigned.

ADR

UN number Not regulated as dangerous goods.

UN proper shipping name

Not Regulated

Transport hazard class(es)

Class Not assigned

Subsidiary risk -

Hazard No. (ADR) Not assigned
Tunnel restriction code Not assigned
Packing group Not assigned
Environmental hazards None

Soecial precautions for user Not assigned

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 TSCA 12(b): Does not contain listed chemicals.

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 Yes

chemical

Classified hazard Reproductive toxicity

categories

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) = 914 g/L (U.S. requirement, not for emissions)

VOC data based on formulation (Organic compounds minus solids)

Material name: CZ680Series

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) 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).

Clean Air Act (CAA)

No intentionally added HAP substances.

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

Issue date01-Jun-2015Revision date21-Sep-2023

Version # 13

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

CFR 1910.1200).

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.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

Acute Tox. Acute toxicity

Aquatic Acute Short-term (acute) aquatic hazard
Aquatic Chronic Long-term (chronic) aquatic hazard

Asp. Tox. Aspiration hazard Carc. Carcinogenicity

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)

Eye Dam. Serious eye damage

Eye Irrit.Eye IrritationFlam. Liq.Flammable liquidsFlam. Sol.Flammable solids

Lact. Effects on or via lactation

Muta. Germ cell mutagenicity

International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

Ox. Liq. Oxidising liquids

Ozone Hazardous to the ozone layer
PEL Permissible Exposure Limit

Press. Gas Gases under pressure

RCRA Resource Conservation and Recovery Act

REC Recommended

REL Recommended Exposure Limit

Repr.Reproductive toxicityResp. Sens.Respiratory sensitization

SARA Superfund Amendments and Reauthorization Act of 1986

Skin Corr.Skin corrosionSkin Irrit.Skin irritationSkin Sens.Skin sensitization

STEL Short-Term Exposure Limit

STOT RESpecific target organ toxicity - repeated exposureSTOT SESpecific target organ toxicity - single exposureTCLPToxicity Characteristics Leaching Procedure

TLV Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds