

# **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 CZ689Series

Other means of identification None.

Recommended use of the chemical and restrictions on use

Recommended use Inkjet printing Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

HP Singapore (Private) Limited

1 Depot Close Singapore, 109841

**Telephone** 62753888

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: hpcustomer.inquiries@hp.com

#### 2. Hazards identification

**GHS** classification

Physical hazards Not classified.

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

child)

Environmental hazards Not classified.

GHS label elements, including precautionary statements

**Pictograms** 

Signal word Danger

**Hazard statements** 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.

Other hazards which do not result in classification

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.

Material name: CZ689Series SDS SINGAPORE

12893 Version #: 08 Revision date: 19-Jun-2020 Issue date: 25-May-2015

# 3. Composition/information on ingredients

Substance or mixture

Mixture

Chemical name	Common name and synonyms	CAS Number	Concentration (%)
Water		7732-18-5	50-70
2-pyrrolidone		616-45-5	<15
Substituted diol		Proprietary	<15
Pigment Blue		Proprietary	<2.5

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

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.

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

least 15 minutes or until particles are removed. If irritation persists get medical attention.

If ingestion of a large amount does occur, seek medical attention. Ingestion

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Not available.

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 available.

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.

**Environmental precautions** Methods and materials for

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

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.

containment and cleaning up 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.

# 8. Exposure controls/personal protection

parameters/Occupational

exposure limits

No exposure limits noted for ingredient(s).

**Exposure guidelines** 

Exposure limits have not been established for this product.

Appropriate engineering control measures

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Not available. Eye/face protection

Material name: CZ689Series SDS SINGAPORE 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 Cyan

Odor Not available.
Odor threshold Not available.

pH

Melting point/freezing point Initial boiling point and boiling Not available. Not available.

range

Flash point > 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup

Not available. **Evaporation rate** Flammability (solid, gas) Not available. Not available. Flammability limit - lower (%) Flammability limit - upper (%) Not available. Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other data

Percent volatile 14 % estimated Specific gravity 1 g/cm3

**VOC** 293 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 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.

Material name: CZ689Series SDS SINGAPORE

Contact with eyes may result in mild irritation. Eye contact

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

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

Components **Species Test Results** 

2-pyrrolidone (CAS 616-45-5)

**Acute** Oral

LD50 Rat > 5000 mg/kg

Not available. **Symptoms** 

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

Respiratory or skin sensitization

Based on available data, the classification criteria are not met. Respiratory sensitization Skin sensitization Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

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

May damage fertility or the unborn child. Reproductive toxicity

> 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.

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

**Chronic effects** Not available

Other 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** 

**Test Results Product Species** 

CZ689Series Aquatic

Acute

Fish

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

Components **Species Test Results** 

2-pyrrolidone (CAS 616-45-5)

Aquatic

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

Persistence and degradability Not available. Bioaccumulative potential Not available. Octanol/water partition coefficient log Kow

> -0.85 2-pyrrolidone

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

#### 13. Disposal considerations

Disposal methods/information 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

Ensure collection and disposal with an appropriately licensed waste contractor.

Not available. Special precautions

Material name: CZ689Series SDS SINGAPORE

## 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 None

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)
Tunnel restriction code
Packing group
Not available.
Parking group
Not available.
None
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

Safety, health and environmental regulations specific for the product in question

**Chemical Weapons Prohibition (Act)** 

Not applicable.

Controlled Narcotic Drugs (Misuse of Drugs Act, First Schedule, Part I, II & III)

Not regulated.

Controlled Specified Drugs (Misuse of Drugs Act, Fourth Schedule)

Not regulated.

**Environmental Protection and Management (Hazardous Substances) Regulations** 

Not applicable.

**Environmental Public Health Act** 

Not applicable.

Prior Informed Consent (PIC) Substances (Environment Protection and Management Act, 2nd Schedule, Part 1, Jul. 1, 2013)

Not regulated.

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#### International regulations

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.

**Montreal Protocol** 

Not applicable.

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Kyoto protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

16. Other information

References

Not available.

Issued by

Company name

HP Inc.

Prepared by

HP Inc.

Disclaimer

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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.

Issue date 25-May-2015 19-Jun-2020 **Revision date** Not applicable. Key/legend

**Revision information** Hazards identification: Supplemental information

Composition/information on ingredients: Composition comments

Toxicological information: Reproductivity

Material name: CZ689Series

12893 Version #: 08 Revision date: 19-Jun-2020 Issue date: 25-May-2015

### **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

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