

SAFETY DATA SHEET

Issue date: 25-Jun-2019 Revision date: 07-Oct-2020

Version #: 04

1. Chemical and company 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. ***

Name of chemical (Product

name)

5ZS56Series

HP Japan Inc.

5F Ojima2-2-1 Koto-ku Tokyo, Japan 136-8711

Poison Information Centre

Telephone

0120-50-3024 (+81) 3 5628-1101

HP Inc. health effects line

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

HP Inc. Customer Care

I ine

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

hpcustomer.inquiries@hp.com

Recommended use of the chemical and restrictions on use

Intended use Inkjet printing

2. Hazards identification

GHS classification

Physical hazards The product is not classified according to GHS.

Health hazards Sensitization, skin Category 1

Environmental hazards The product is not classified according to GHS.

GHS label elements

Symbols



Signal words Warning

Hazard statement May cause an allergic skin reaction.

Precautionary statement

Prevention Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing

dust/fume/mist/vapors. Contaminated work clothing should not be allowed out of the workplace.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical Response

advice/attention. Take off contaminated clothing and wash it before reuse.

None. **Storage**

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.

3. Composition/information on ingredients

Substance or mixture Mixture

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Components	Gazette notification			
	CAS Number	ENCS no.	ISHL no.	Concentration (%)
Water	7732-18-5	(9)-447		80-90
Glycerol	56-81-5	(2)-242	(2)-242	<20
Cyan colorant	Proprietary	Proprietary	Proprietary	<5
2-pyrrolidone	616-45-5	(5)-112	(5)-112	<2.5
1,2-Benzisothiazolin-3-one	2634-33-5	(9)-1845	(9)-1845	<0.05
2-methyl-2h-isothiazol-3-one	2682-20-4	(5)-5235	(5)-5235	<0.05

Chemical formula H2O (7732-18-5), C3-H8-O3 (56-81-5), C3-H8-O3 (56-81-5), C4-H7-N-O (616-45-5), C4-H7-N-O

(616-45-5), C7H5NOS (2634-33-5), C7H5NOS (2634-33-5), C4H5NOS (2682-20-4)

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

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

If on skin Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

If in 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.

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

5. Fire-fighting measures

Extinguishing media Dry chemical, CO2, water spray or regular foam.

Extinguishing media to avoid None known.

Specific methods None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures Wear appropriate personal protective equipment.

Environmental precautions Methods or materials for

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

methods or 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.

7. Handling and storage

Handling

Technical measures (e.g.

Local and general

ventilation)

Not available.

Safe handling advice

Avoid contact with skin, eyes and clothing.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Storage

Safe storage conditions

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

Safe packaging materials

Not available.

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Exposure guidelines Exposure limits have not been established for this product.

Engineering measures Use in a well ventilated area.

Personal protective equipment

Respiratory protection Not available.

Hand protection Wear appropriate chemical resistant gloves.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Personal protective equipment

Eye protection Wear safety glasses with side shields (or goggles).

Skin and body protection Use personal protective equipment to minimize exposure to skin and eye.

9. Physical and chemical properties

Appearance

Physical stateLiquid.FormLiquid.ColorCyan

Odor Not available.

pH 8.2

Melting point/Freezing pointNot available.Boiling point, initial boilingNot available.

point, and boiling range

Flash point 336.0 °F (168.9 °C)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Specific gravity Not available.

Solubility(ies)

Solubility (water)

Partition coefficient

Not available.

Not available.

(n-octanol/water)

Other information

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity (Coefficient ofNot available.

viscosity)

Oxidizing properties Not determined

VOC 7.3 %

10. Stability and reactivity

Reactivity Not available.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid None.

Incompatible materials Incompatible with strong bases and oxidizing agents.

Hazardous decomposition

products dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

Acute toxicity 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

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

Glycerol (CAS 56-81-5)

Acute Dermal

LD50 Guinea pig 45 ml/kg, Days

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Test Results Components **Species**

Inhalation

Vapor

LC50 Rat 4655 mg.min/l, 7 Hours

Oral

LD50 Rat 18300 mg/kg

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.

Respiratory or skin sensitization

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

Skin sensitization May cause sensitization by skin contact.

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

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

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

Aspiration hazard Based on available data, the classification criteria are not met. Other information Complete toxicity data are not available for this specific formulation

12. Ecological information

Ecotoxicological data

Components **Test Results Species**

2-pyrrolidone (CAS 616-45-5)

Aquatic

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

Ecotoxicity Not available. Persistence and degradability Not available. Not available. **Bioaccumulation**

Bioaccumulative potential

Octanol/water partition coefficient log Kow

-0.85 2-pyrrolidone Glycerol -1.76

Mobility in soil Not available. Not available. Hazardous to the ozone layer

13. Disposal considerations

Local disposal regulations 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

Not available. **UN number UN** proper shipping name Not Regulated

Transport hazard class(es)

Class Not available.

Subsidiary risk

Packing group Not available. 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

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

Not available. Packing group

Transport hazard class(es)

Marine pollutant No.

Not available. Special precautions for user Not available.

ADR

UN number Not available. **UN** proper shipping name Not Regulated

Transport hazard class(es)

Not available. Class

Subsidiary risk

Not available. Hazard No. (ADR) **Tunnel restriction code** Not available. Packing group Not available.

Environmental hazards

Special precautions for user Not available.

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. **Further information**

Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

15. Regulatory information

Industrial Safety and Health Act

Notifiable substances

Not regulated.

Labeling substances

Not regulated.

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

1,2,3-Propanetriol

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content)

Not regulated.

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Class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Not regulated.

Ship Safety Law, Dangerous

Goods Marine Transport and

Storage Rule

Air Law, Enforcement Rule Not regulated.

Explosives Control Act Not regulated.

Act on Prevention of Marine Pollution and Maritime Disaster

WATER Category: Other Substances

GLYCEROL Category: Z

Regulatory information 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.

16. Other information

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.

Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service

Comprehensive Environmental Response Compensation and Liability Act **CERCLA**

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

National Institute for Occupational Safety and Health NIOSH

National Toxicology Program NTP

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

RCRA Resource Conservation and Recovery Act

REC Recommended

REL Recommended Exposure Limit

Superfund Amendments and Reauthorization Act of 1986 **SARA**

Short-Term Exposure Limit **STEL**

TCLP Toxicity Characteristics Leaching Procedure

Threshold Limit Value TLV

TSCA Toxic Substances Control Act VOC Volatile Organic Compounds

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