MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

Product name CN764 Series

Recommended use of the chemical and restrictions on use

Intended use Inkjet printing

Company identification Hewlett-Packard Japan, Ltd.
2-2-1 Ojima, Koto-ku, Tokyo, 136-8711 Japan
Telephone (+81) 3 5628-1101

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com
Poison Information Centre 0120-50-3024

2. Hazards identification

Classification Xi;R37/38-41, R32-43, R52/53

Physical hazards Not classified as a physical hazard.

Health hazards Contact with acids liberates very toxic gas. Irritating to respiratory system and skin. Risk of serious damage to eyes. May cause sensitization by skin contact.

Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Substance or mixture Mixture

Components	CAS #	Percent
Dipropylene Glycol Diacrylate	57472-68-1	<100
1,6-Hexanediol Diacrylate	13048-33-4	<10
Ester-acrylate oligomer	Trade Secret	<10
Hydroquinone	123-31-9	<0.5

Synonym(s) HP Scitex UV100 Supreme Cyan Ink

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. If irritation persists get medical attention.

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 swallowed If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

Most important symptoms and effects No data available

5. Fire-fighting measures

Flash point Not available.

Extinguishing media Dry chemical, CO2, water spray or alcohol resistant foam.

Extinguishing media to avoid Do not use water jet.

Special fire fighting procedures Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Protection of fire-fighters Avoid runoff into storm sewers and ditches which lead to waterways.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures Wear appropriate personal protective equipment. Remove all sources of ignition. Avoid inhalation of vapors or mists.

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

Clean-up methods and materials and containment measures Not available.

7. Handling and storage

Handling

Technical measures Not available.

Local and general ventilation Not available.

Precautions Not available.

Safe handling advice Avoid contact with skin, eyes and clothing.

Storage

Technical measures Do not handle or store near an open flame, heat or other sources of ignition. Keep away from excessive heat or cold. Do not store in direct sunlight.

Suitable storage conditions Not available.

Incompatible products No data.

Safe packaging materials Not available.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Hydroquinone (CAS 123-31-9)	TWA	1 mg/m3

Recommended monitoring procedures

Additional exposure data Not available.

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Protective gloves complying with EN 374.

Eye protection Wear safety glasses; chemical goggles (if splashing is possible).

Skin and body protection Wear suitable protective clothing. Separate rooms are required for washing, showering and changing clothes. Use protective skin cream before handling the product.

9. Physical and chemical properties

Appearance

Physical state Not available.

Form Liquid.

Color Cyan

Odor Characteristic.

Odor threshold No information available.

pH Not available.

Melting point/Freezing point Not available.

Boiling point, initial boiling point, and boiling range Not available.

Flash point Not available.

Auto-ignition temperature Not available.

Flammability limit - lower (%) Not available.

Flammability limit - upper (%)	Not available.
Vapor pressure	0.05 mm Hg
Specific gravity	1.065
Solubility	Not available.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Other data	
VOC (Weight %)	< 95 g/L

10. Stability and reactivity

Stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.
Conditions to avoid	None.
Incompatible materials	Incompatible with strong bases and oxidizing agents. alkaline metals reducing agents Reacts violently with peroxides.
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

General information Complete toxicity data are not available for this specific formulation

Information on likely routes of exposure

Ingestion	Not available.
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.

Symptoms Not available.

Acute toxicity

Components	Species	Test Results
1,6-Hexanediol Diacrylate (CAS 13048-33-4)		
Acute		
Dermal		
LD50	Rabbit	3600 mg/kg
Oral		
LD50	Rat	5 g/kg
Hydroquinone (CAS 123-31-9)		
Acute		
Dermal		
LD50	Guinea pig	> 1000 mg/kg
	Rat	> 900 mg/kg
Oral		
LD50	Cat	50 mg/kg
	Dog	299 mg/kg
	Guinea pig	550 mg/kg
	Mouse	245 mg/kg
	Rabbit	540 mg/kg
	Rat	320 mg/kg
Other		
LD50	Mouse	100 mg/kg

Components	Species	Test Results
	Rabbit	125 mg/kg
	Rat	115 mg/kg

Carcinogenicity No data available.

Specific target organ toxicity - single exposure No data available.

Specific target organ toxicity - repeated exposure No data available

Other information Complete toxicity data are not available for this specific formulation

12. Ecological information

Ecotoxicological data

Components		Species	Test Results
Hydroquinone (CAS 123-31-9)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.12 - 0.15 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.044 mg/l, 96 hours

Ecotoxicity No data available.

Aquatic toxicity Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Hydroquinone	0.59

Mobility in soil No data available.

13. Disposal considerations

Contaminated packaging No special precautions.

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.

14. Transport information

International regulations

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

15. Regulatory information

Industrial Safety and Health Act

Specified substances regulation

Class 1 designated chemical substances

Not regulated.

Class 2 designated chemical substances

Not regulated.

Class 3 designated chemical substances

Not regulated.

Organic solvent regulation

Class 1 organic solvents

Not regulated.

Organic solvent regulation

Class 2 organic solvents

Not regulated.

Class 3 organic solvents

Not regulated.

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

Not regulated.

Law concerning Pollutant Release and Transfer Register

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

Not regulated.

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

1,6-HEXANEDIOL DIACRYLATE Ordinance No. 306 6.2 % (Diacrylate Compound 1)

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

Not regulated.

Fire Service Act Not regulated.

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule Not regulated.

Air Law, Enforcement Rule Not regulated.

Explosives Control Act

Not regulated.

High Pressure Gas Safety Act

Not regulated.

Act on Prevention of Marine Pollution and Maritime Disaster

Not regulated.

Waste Management and Public Cleansing Act

Not regulated.

16. Other information

This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company 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.

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Manufacturer information

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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