




SAFETY DATA SHEET

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Version #: 09

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)	CP814Series
	HP Japan Inc. 4F Ojima2-2-1 Koto-ku Tokyo, Japan 136-8711
Poison Information Centre Telephone	0120-50-3024 (+81) 3 5749-8363
HP Inc. health effects line (Toll-free within the US) (Direct)	1-800-457-4209 1-760-710-0048
HP Inc. Customer Care Line (Toll-free within the US) (Direct)	1-800-474-6836 1-208-323-2551
Email:	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	Skin corrosion/irritation Category 2 Sensitization, skin Category 1 Reproductive toxicity (fertility, the unborn child) Category 2 Specific target organ toxicity, repeated exposure Category 2 (liver, respiratory system)
Environmental hazards	Hazardous to the aquatic environment, long-term hazard Category 2
GHS label elements	
Symbols	
Signal words	Warning
Hazard statement	Suspected of damaging fertility. Suspected of damaging the unborn child. Causes skin irritation. May cause an allergic skin reaction. May cause damage to organs (liver, respiratory system) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.
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. Call a POISON CENTER/doctor/physician if you feel unwell. Get medical attention/advice if you feel unwell. Collect spillage. Wash contaminated clothing before reuse.
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	Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

3. Composition/information on ingredients

Substance or mixture Mixture

Components	CAS Number	Gazette notification		Concentration (%)
		ENCS no.	ISHL no.	
Dipropylene Glycol Diacrylate	Proprietary	Proprietary	Proprietary	<25
Acrylic acid ester	Proprietary	(3)-3684		<20
Acrylate ester 3	Proprietary	Proprietary	Proprietary	<15
Acrylic acid, Monoalkyl Ester	Proprietary	(2)-990	(2)-990	<10
Glycerol, propoxylated, esters with acrylic acid	Proprietary			<10
Difunctional acrylic monomer	Proprietary			<5
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	Proprietary	(3)-4078	4-(3)-48	<5
Substituted Phosphine Oxide	Proprietary	(3)-4445		<5
Vinylcaprolactam	Proprietary	(5)-6239	8-(1)-2044	<5
1,6-Hexanediol Diacrylate	13048-33-4	(2)-1007, (2)-958	(2)-1007, (2)-958	<1
CUPRATE (1-), [29H, - 31H-PHTHALOCYANINE-CSULFONATO (3 -) - N29, N30, N31, N32], VODIK, COMPD. S 1-DODECANAMINOM (1: 1)	73455-75-1			<1
Vinylester resin	Proprietary	(7)-706	(7)-706	<1

Synonym(s) HP HDR230 Cyan Scitex Ink Cartridge

Chemical formula C12-H18-O4 (13048-33-4), C12-H18-O4 (13048-33-4)

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. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Extinguishing media	Dry powder. Carbon dioxide (CO2). Water may be ineffective.
Extinguishing media to avoid	Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.
Special fire fighting procedures	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. Do not touch or walk through spilled material.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
Methods or materials for containment and cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

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. Do not get this material in your eyes, on your skin, or on your clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Keep away from food and drink.

Storage

Safe storage conditions	Keep away from excessive heat or cold. Do not store in direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition. Opaque, high density polyethylene (HDPE) containers are recommended for shipping and storage.
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.
Personal protective equipment	
Respiratory protection	Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	Recommended gloves: Nitrile 6 mil minimum thickness. Wear appropriate chemical resistant gloves.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Do not get this material in your eyes, on your skin, or on your clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Keep away from food and drink.
Personal protective equipment	
Eye protection	Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
Skin and body protection	Wear appropriate chemical resistant clothing.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Cyan
Odor	Characteristic.
pH	6.8 - 7.2 Metler Toledo pH Meter. Temperature 25°C
Melting point/Freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	> 287.6 °F (> 142.0 °C) Pensky-Martens Closed Cup EPA Method 1020 Estimated
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)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity (Coefficient of viscosity)	12.5 - 13.5 cP Cone and Plate Rheometer, Temperature 50°C. C60/1° Sensor. Values recorded at 4000 1/s.
Other information	
VOC	18 g/l Method 24/ASTM D5409-93 Estimated

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.

Conditions to avoid	Exposure to sunlight.
Incompatible materials	Incompatible with strong bases and oxidizing agents. alkaline metals
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

Acute toxicity	Based on available data, the classification criteria are not met.	
Components	Species	Test Results
Vinylcaprolactam		
Acute		
Dermal		
LD50	Rabbit	1700 mg/kg
Inhalation		
LC50	Rat	> 1.6 mg/l
Oral		
LD50	Rat	1114 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met. Non-corrosive. Not a known irritant. (OECD 437)	
Respiratory or skin sensitization		
Respiratory sensitization	Based on available data, the classification criteria are not met.	
Skin sensitization	May cause sensitization by skin contact.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	
Reproductive toxicity	Suspected of damaging the unborn child. Suspected of damaging fertility.	
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - repeated exposure	May cause damage to organs (liver, respiratory system) through prolonged or repeated exposure.	
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

Aquatic toxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This product has not been tested for ecological effects.

Ecotoxicological data

Components		Species	Test Results
Acrylic acid ester			
<i>Acute</i>			
	EC10	Desmodesmus subcapitatus	0.71 mg/l, 72 h (DIN 38412 L9)
	EC50	Desmodesmus subcapitatus	4.44 mg/l, 72 h (DIN 38412 L9)
	LC50	Leuciscus idus	10 mg/l, 96 h (DIN 38 412)
	NOEC	Desmodesmus subcapitatus	0.71 mg/l, 72 h (DIN 38412 L9)
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	1.21 mg/l, 48 h (Directive CE 79/831/CEE, Annex V, Part C)
Acrylic acid, Monoalkyl Ester			
<i>Acute</i>			
	ErC50	Pseudokirchneriella subcapitata	> 0.274 µg/l, 72 h (OECD 201)
	LC50	Leuciscus idus	460 mg/l, 96 h (DIN 38 412, part L 15, 1982)
	NOEC	Leuciscus idus	215 mg/l, 96 h (DIN 38 412, part L 15, 1982)
<i>Chronic</i>			
	LOEC	Daphnia magna	> 0.25 µg/l, 21 d (OECD 211)

Components		Species	Test Results
Aquatic			
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.25 µg/l, 21 d (OECD 211)
Fish	LOEC	Danio rerio	> 1 µg/l, 36 d (OECD 210)
CUPRATE (1-), [29H, - 31H-PHTHALOCYANINE-CSULFONATO (3 -) - N29, N30, N31, N32], VODIK, COMPD. S 1-DODECANAMINOM (1: 1) (CAS 73455-75-1)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	0.569 mg/l, 48 h (OECD 202)
Difunctional acrylic monomer			
<i>Acute</i>			
	EC10	Pseudokirchneriella subcapitata	2.3 mg/l, 72 h (OECD 201)
	EC50	Pseudokirchneriella subcapitata	11 mg/l, 72 h (OECD 201)
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia Magna	37 mg/l, 48 h (OECD 202)
Fish	LC50	Danio rerio	2.7 mg/l, 96 h (OECD 203)
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide			
<i>Acute</i>			
	EC10	Pseudokirchneriella subcapitata	1.56 mg/l, 72 h (OECD 201)
	EC50	Pseudokirchneriella subcapitata	> 2.01 mg/l, 72 h (OECD 201)
	LC50	Cyprinus carpio	1.4 mg/l, 96 h (OECD 203)
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	3.53 mg/l, 48 h (OECD 202)
Substituted Phosphine Oxide			
<i>Acute</i>			
	EC50	Desmodesmus subspicatus	> 260 µg/l, 72 h (OECD 201)
	LC50	Danio rerio	> 90 µg/l, 96 h (OECD 203)
	NOEC	Desmodesmus subspicatus	> 260 µg/l, 72 h (OECD 201)
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	> 1175 µg/l, 48 h (OECD 202)
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	>= 8.1 µg/l, 21 d (OECD 211)
Vinylester resin			
<i>Acute</i>			
	EC50	Pseudokirchneriella subcapitata	105 mg/l, 72 h (OECD 201)
	LC50	Cyprinus carpio	> 0.082 mg/l, 96 h (OECD 203)
	NOEC	Pseudokirchneriella subcapitata	29 mg/l, 72 h (OECD 201)
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	> 16 mg/l, 48 h (OECD 202)
	NOEC	Daphnia magna	> 16 mg/l, 48 h (OECD 202)
<i>Chronic</i>			
Crustacea	EC10	Daphnia magna	> 0.51 mg/l, 21 d (OECD 211)
	NOEC	Daphnia magna	> 0.51 mg/l, 21 d (OECD 211)
Fish	EC10	Pimephales promelas	0.43 mg/l, 33 d (OECD 210)
	NOEC	Pimephales promelas	0.25 mg/l, 33 d (OECD 210)
Ecotoxicity	Not available.		
Persistence and degradability	Propionic acid, 2-methyl-3,3'-(phenylphosphinylidene)di-, diallyl ester: inherently biodegradable (42%, 28D, OECD 301F)		
Bioaccumulation	Propionic acid, 2-methyl-3,3'-(phenylphosphinylidene)di-, diallyl ester: No bioaccumulation observed, logPow = 3.8		

Bioaccumulative potential**Bioconcentration factor**

Acrylic acid, Monoalkyl Ester
 Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide

2.34, (EPA Epiwin (v.4.11))
 72, (JIS K 0102-1986, 71 - Kanpogyo No .S, Yakuhatsu No .
 615, 49-Kikyoku No . 392, MITI/MHW Chemical Substance
 Control Law, Japan)
 5, (similar to OECD 305 C)

Substituted Phosphine Oxide

Mobility in soil Not available.

Hazardous to the ozone layer Not available.

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.

14. Transport information**DOT**

UN number UN3082
UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates), MARINE POLLUTANT
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Environmental hazards
Marine pollutant Yes
Special precautions for user Not available.

DOT Supplemental Information DOT Classification only applies to shipments within the US and Puerto Rico.

IATA

UN number UN3082
UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Environmental hazards Yes
Special precautions for user Not available.

IMDG

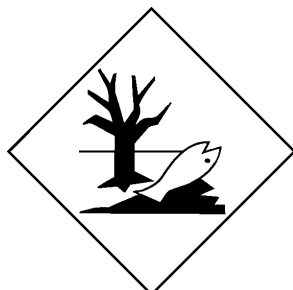
UN number UN3082
UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates), MARINE POLLUTANT
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Transport hazard class(es)
Marine pollutant Yes
EmS F-A, S-F
Special precautions for user Not available.

ADR

UN number UN3082
UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
Transport hazard class(es)
Class 9
Subsidiary risk -
Hazard No. (ADR) Not available.
Tunnel restriction code Not available.
Packing group III
Environmental hazards Yes
Special precautions for user Not available.



Marine pollutant



15. Regulatory information

Industrial Safety and Health Act

Notifiable substances

Acrylic acid, Monoalkyl Ester

0 - 10 %

Labeling substances

Acrylic acid, Monoalkyl Ester

0 - 10 %

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 0.23 % (1,6-Hexanediol Diacrylate)

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

Not regulated.

Fire Service Act

Class 4 Group 3 oils (Non-water soluble) Hazard rank III

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule

Miscellaneous dangerous substances

Air Law, Enforcement Rule

Miscellaneous dangerous goods

Explosives Control Act

Not regulated.

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 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. 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.

Revision information

3. Composition / Information on Ingredients: Disclosure Overrides

Toxicological information: Acute toxicity

Ecological information: Persistence / degradability

Ecological information: Bioaccumulation

Ecological information: Mobility in soil

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