



SAFETY DATA SHEET

1. Product 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 the chemical	CP816Series	
Other means of identification		
Synonyms	HP HDR230 Yellow Scitex Ink Cartridge	
Recommended use of the chemical and restrictions on use		
Recommended use	Inkjet printing	
Recommended restrictions	None known.	
Company identification	HP Taiwan Information Technology Ltd. 10F-2, No. 66 Jing Mao 2 Road P.C 11568 Taipei Taiwan	
Telephone	(02)3789-9900	
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

Hazard classification		
Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 5
	Acute toxicity, dermal	Category 5
	Skin corrosion/irritation	Category 2
	Sensitization, skin	Category 1
	Reproductive toxicity (fertility, the unborn child)	Category 2
	Specific target organ toxicity, repeated exposure	Category 1 (liver, respiratory system)
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2

Label elements

Symbols



Signal word

Danger

Hazard statement

Suspected of damaging fertility or the unborn child. May be harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes 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	Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.
Supplemental information	None.

3. Composition/information on ingredients

Mixture

Chemical name	CAS Number	Concentration (%)
Oxybis(methyl-2,1-ethanediyl) diacrylate	57472-68-1	<25
2-Phenoxyethyl acrylate	48145-04-6	<20
Propoxylated glycerol triacrylate	52408-84-1	<15
Propylidynetrimethanol, ethoxylated esters with acrylic acid	28961-43-5	<15
Dodecyl acrylate	2156-97-0	<10
1-vinylhexahydro-2H-azepin-2-one	2235-00-9	<5
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	75980-60-8	<5
Phenyl, Bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	<5
1,6-Hexanediol Diacrylate	13048-33-4	<1
Propionic acid, 2-methyl-3,3'-(phenylphosphinylidene)di-, diallyl ester	55818-57-0	<1

4. First aid measures

First aid measures for different exposure routes

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 the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.
Most important symptoms and effects	Not available.
Personal protection for first-aid responders	Not available.
Notes to physician	Not available.

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.
Specific hazards during fire fighting	None.
Special fire fighting procedures	Avoid runoff into storm sewers and ditches which lead to waterways.
Protection of fire-fighters	None.

6. Accidental release measures

Personal precautions	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.
Spill cleanup methods	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	Avoid contact with skin, eyes and clothing.
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Storage	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.
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8. Exposure controls/personal protection

Exposure limits

No exposure limits noted for ingredient(s).

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 Not available.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

Skin protection

Hand protection Recommended gloves: Nitrile 6 mil minimum thickness. Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

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

Thermal hazards Not available.

General hygiene considerations 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.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid.

Color Yellow

Odor Characteristic.

Odor threshold Not available.

Melting point/freezing point Not available.

pH 6.8 - 7.2 Metler Toledo pH Meter. Temperature 25°C

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

Flammability (solid, gas) Not available.

Flash point > 285.8 °F (> 141.0 °C) Pensky-Martens Closed Cup EPA Method 1020 Estimated

Decomposition temperature Not available.

Auto-ignition temperature Not available.

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.

Density 1.00 g/cm³

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Evaporation rate Not available.

Other data

Viscosity 12.5 - 13.5 cP Cone and Plate Rheometer, Temperature 50°C. C60/1° Sensor. Values recorded at 4000 1/s.

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	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

Information on likely routes of exposure

Inhalation	Inhalation may result in mild irritation to the respiratory system.
Skin contact	Causes skin irritation. May cause sensitization by skin contact.
Eye contact	Contact with eyes may result in mild irritation.
Ingestion	Ingestion is not a likely route of exposure.

Symptoms Not available.

Information on toxicological effects

Acute toxicity May be harmful if swallowed. May be harmful in contact with skin.

Components	Species	Test Results
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1-vinylhexahydro-2H-azepin-2-one (CAS 2235-00-9)

Acute

Dermal

LD50	Rabbit	1700 mg/kg
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Inhalation

LC50	Rat	> 1.6 mg/l
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Oral

LD50	Rat	1114 mg/kg
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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 Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure.

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

Chronic effects Not available.

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.

Ecotoxicity

Components	Species	Test Results
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2-Phenoxyethyl acrylate (CAS 48145-04-6)

Acute

EC10	Desmodemus subcapitatus	0.71 mg/l, 72 h (DIN 38412 L9)
EC50	Desmodemus subcapitatus	4.44 mg/l, 72 h (DIN 38412 L9)
LC50	Leuciscus idus	10 mg/l, 96 h (DIN 38 412)

Components		Species	Test Results
	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)
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide (CAS 75980-60-8)			
<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)
Dodecyl acrylate (CAS 2156-97-0)			
<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)
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)
Phenyl, Bis(2,4,6-trimethylbenzoyl)-phosphine oxide (CAS 162881-26-7)			
<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)
Propionic acid, 2-methyl-3,3'-(phenylphosphinylidene)di-, diallyl ester (CAS 55818-57-0)			
<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)

Persistence and degradability Not available.

Bioaccumulation

**Bioaccumulative potential
Bioconcentration factor**

Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide

72, (JIS K 0102-1986, 71 - Kanpogyo No .S, Yakuhatsu No .
615, 49-Kikyoku No . 392, MITI/MHW Chemical Substance
Control Law, Japan)

Dodecyl acrylate

2.34, (EPA Epiwin (v.4.11))

Phenyl, Bis(2,4,6-trimethylbenzoyl)-phosphine oxide

5, (similar to OECD 305 C)

Mobility in soil Not available.**Other hazardous effects** Not available.

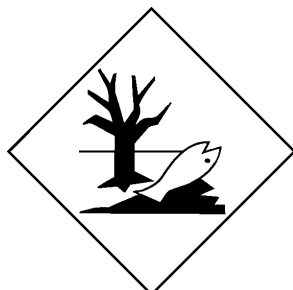
13. Disposal considerations**Disposal instructions** Do not dispose of together with general office waste.
Do not allow this material to drain into sewers/water supplies.
Dispose of waste material according to Local, State, Federal, and Provincial Environmental
Regulations.
Ensure collection and disposal with an appropriately licensed waste contractor.**Residual waste** Not available.**Contaminated packaging** Not available.**Local disposal regulations** Not available.

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.

ADR; DOT; IATA; IMDG



Marine pollutant



15. Regulatory information

Applicable regulations

Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Not listed.

Priority Management Chemical List (Regulations on Handling Priority Managed Chemicals), as amended

Not listed.

Toxic Chemical Substances (TCS) List (EPA Toxic Substances Notice No. 0960095331E, Tables 1-3, Dec. 17, 2007, as amended)

Not listed.

GHS Classification List: GHS implementation phase 1, 2 and 3 (CLA No. 0980145063, 0990146707, and 1020146801)

1,6-Hexanediol Diacrylate (CAS 13048-33-4)

Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide (CAS Proprietary)

Dipropylene Glycol Diacrylate (CAS 57472-68-1)

Rules on Road Transportation Safety

Regulated.

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.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

References

Not available.

Issued by

HP Inc.

Prepared by

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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