



SAFETY DATA SHEET

1. Identification of the dangerous substance/preparation and the identity of the manufacturer, importer, agent or marketer

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Product name CH216Series

Other means of identification
Synonym(s) HP Scitex FB250 Cyan Ink

Company identification Hewlett-Packard (Israel) Ltd.
Dafna 9 Ra'anana 43662,
Israel

Telephone +972 9 7623222

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. Identification of the components of the substance/preparation

Substance or Preparation	Preparation		
Chemical name	Synonyms	CAS number	Percent
Acrylic acid ester		Proprietary	<30
Vinylcaprolactam		Proprietary	<25
Blue Pigment		Proprietary	<15
Carboxylic Acids, Esters		Proprietary	<15
Acrylate ester 5		Proprietary	<5
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide		Proprietary	<5
Alkyl Acrylate Ester		Proprietary	<2.5
Amine synergist		Proprietary	<2.5
Benzophenone		119-61-9	<2.5
Difunctional acrylic monomer		Proprietary	<2.5
2,6-di-tert-butyl-.alpha.-dimethylamino-p-cresol		88-27-7	<1
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone		119313-12-1	<1
Glycerol, propoxylated, esters with acrylic acid		Proprietary	<1
Vinylester resin		Proprietary	<1

3. Dangers of the dangerous substance/preparation

Classification T;R48/23, Xn;R22, Xi;R36/38, R43, N;R51, R52/53

Physical hazards Not classified as a physical hazard.

Health hazards	Harmful if swallowed. Irritating to eyes and skin. May cause sensitization by skin contact. Toxic: danger of serious damage to health by prolonged exposure through inhalation.	
Environmental hazards	Toxic to aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
GHS classification		
Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
	Reproductive toxicity	Category 1B
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2
GHS label elements		
Symbols		
Signal word	Danger	
Hazard statement	May damage fertility. May damage the unborn child. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. 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 handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.	
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. 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 if you feel unwell. Take off contaminated clothing and wash before reuse. Collect spillage.	
Storage	Store in a well-ventilated place. Keep container tightly closed. 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. Benzophenone is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans).	
Supplemental information	None.	

4. First aid instructions

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.

Main symptoms Not available.

Personal protection for first-aid responders Not available.

Notes to physician	Not available.
Special first aid equipment	Not available.

5. Firefighting procedure

Extinguishing media

Suitable extinguishing media	Dry powder. Carbon dioxide (CO ₂). Water may be ineffective.
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Extinguishing media which must not be used for safety reasons	Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.
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Specific hazards during fire fighting	Not available.
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Special fire fighting procedures	Avoid runoff into storm sewers and ditches which lead to waterways.
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Protection of fire-fighters	Not available.
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6. Safety precautions

Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
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Methods for 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.
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Other information	Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations.
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Personal precautions	Wear appropriate personal protective equipment. Do not touch or walk through spilled material.
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7. Handling and storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing.
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Conditions for safe storage, including any incompatibilities	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. Means of reducing exposure and personal protection

Engineering measures to reduce exposure	Not available.
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Occupational exposure limits	No exposure limits noted for ingredient(s).
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Biological limit values	No biological exposure limits noted for the ingredient(s).
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Exposure guidelines	Exposure limits have not been established for this product.
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Personal protective equipment

Respiratory protection	Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.
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Hand protection	Wear appropriate chemical resistant gloves. Recommended gloves: Nitrile 6 mil minimum thickness.
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Eye protection	Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
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Skin and body protection	Wear appropriate chemical resistant clothing.
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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.
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9. Physical and chemical properties

Appearance

Physical state	Liquid.
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Form	Liquid.
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Color	Cyan
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Odor	Characteristic.
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pH	7.4 - 7.8 Metler Toledo pH Meter. Temperature 25°C
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Melting point/freezing point	Not available.
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Initial boiling point and boiling range	Not available.
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Decomposition temperature	Not available.
Flash point	> 199.9 °F (> 93.3 °C) Calculated
Flammability	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.
Oxidizing properties	Not available.
Vapor pressure	Not available.
Density	1.07 g/cm3
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Other information	
Chemical family	Acrylate/Polymer/Pigment Blend
Viscosity	9.3 - 10.6 cP Brookfield Viscometer Temperature 50°C
VOC	< 95 g/L Calculated

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under normal storage conditions.
Conditions to avoid	Exposure to sunlight.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.
Incompatibility	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.
Materials to avoid	Not available.

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	Causes serious eye irritation.
Ingestion	Ingestion is not a likely route of exposure.

Toxicological data Not available.

Acute toxicity May be harmful if swallowed.

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	Causes serious eye irritation.
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.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Benzophenone (CAS 119-61-9)	2B Possibly carcinogenic to humans.
Reproductive toxicity	May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	May cause irritation to the respiratory system.
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. Environmental 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

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

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)
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)

Components	Species	Test Results
Vinylester resin		
<i>Acute</i>		
	EC50	Pseudokirchneriella subcapitata
	LC50	Cyprinus carpio
	NOEC	Pseudokirchneriella subcapitata
		105 mg/l, 72 h (OECD 201)
		> 0.082 mg/l, 96 h (OECD 203)
		29 mg/l, 72 h (OECD 201)
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna
	NOEC	Daphnia magna
		> 16 mg/l, 48 h (OECD 202)
		> 16 mg/l, 48 h (OECD 202)
<i>Chronic</i>		
Crustacea	EC10	Daphnia magna
	NOEC	Daphnia magna
		> 0.51 mg/l, 21 d (OECD 211)
		> 0.51 mg/l, 21 d (OECD 211)
Fish	EC10	Pimephales promelas
	NOEC	Pimephales promelas
		0.43 mg/l, 33 d (OECD 210)
		0.25 mg/l, 33 d (OECD 210)
Environmental effects	Not available.	
Persistence and degradability	Not available.	
Mobility in soil	Not available.	
Other information	Not available.	

13. Dangerous substance disposal methods

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. Dispose of in compliance with Israeli Ministry of the Environment and local regulations.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.
Special precautions	Not available.

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

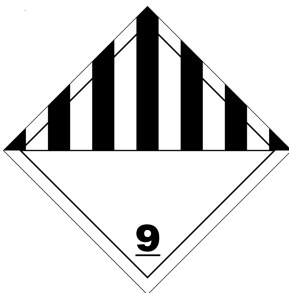
IATA

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.
IATA Supplemental Information	When shipping ≤ 5L inner packaging, Special Provision A197 may apply.

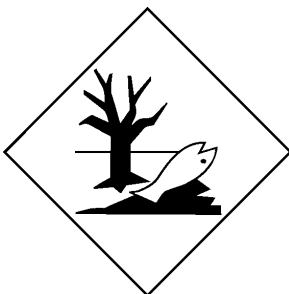
IMDG

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.
IMDG Supplemental Information	When shipping ≤ 5L containers, IMDG 2.10.2.7 may apply.
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 Supplemental Information	When shipping ≤ 5L containers, ADR 375 may apply.
ADR; IATA; IMDG	



Marine pollutant



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

15. Regulatory information

Israel regulations

Israel. Harmful Chemicals (Hazardous Substances Law, 5753-1993, Annex 1, as amended)

Not listed.

Israel. Toxic Chemicals (Hazardous Substances Law, 5753-1993, Annex 2, as amended)

Not listed.

Regulatory information The components of this product are reported in the following inventories: USA, European Union, Canada, Japan, China, Australia, Korea.

16. Other information

Training information	Follow training instructions when handling this material.
Recommended use	Not available.
Recommended restrictions	Not available.
Further information	Not available.

Bibliography

Not available.

Disclaimer

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Revision information

1. Product and Company Identification: EU Poison Center

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