



# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

<b>Important information</b>	*** 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. ***	
<b>A. Product name</b>	CH834 Series	
<b>Other means of identification</b>		
<b>Synonym(s)</b>	HP Scitex TJ210 Light Cyan Ink	
<b>B. Recommended use and Limitations on use</b>		
<b>Recommended use</b>	Inkjet printing	
<b>C. Supplier information</b>		
	HP Korea House 23-6 Yoido-dong Youngdeungpo-gu Seoul 150-742, Korea	
<b>Telephone</b>	(02) 2199-0114	
<b>HP Inc. health effects line</b>		
<b>(Toll-free within the US)</b>	1-800-457-4209	
<b>(Direct)</b>	1-760-710-0048	
<b>HP Inc. Customer Care Line</b>		
<b>(Toll-free within the US)</b>	1-800-474-6836	
<b>(Direct)</b>	1-208-323-2551	
<b>Email:</b>	hpcustomer.inquiries@hp.com	

## 2. Hazards identification

### A. Hazard category/Classification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
	Reproductive toxicity	Category 1B
	Specific target organ toxicity, repeated exposure	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, long-term hazard	Category 2

### B. Warning label items including precautionary statement

• Pictogram



• Signal word

Danger

• Hazard statement

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

• Precautionary statement

**Prevention**

P280	Wear protective gloves/protective clothing/eye protection/face protection.
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P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P270	Do not eat, drink or smoke when using this product.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.

#### Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P308 + P313	IF exposed or concerned: Get medical attention/advice.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P314	Get medical attention/advice if you feel unwell.
P391	Collect spillage.
P362	Take off contaminated clothing and wash before reuse.

#### Storage

P405	Store locked up.
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#### Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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**C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)** Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

**Supplemental information** None.

### 3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
Propoxylated Neopentyl Glycol Diacrylate		84170-74-1	KE-25813, KE-05-1064	20 - 25
1-vinylhexahydro-2H-azepin-2-one		2235-00-9	KE-13281, 97-3-88	15 - 20
Tetrahydrofurfuryl acrylate		2399-78-6	KE-29729	10 - 15
Isodecyl acrylate		1330-61-6	KE-29586	<20
2-phenoxyethyl acrylate		48145-04-6	KE-29624	5 - 10
2-isopropyl-9H-thioxanthen-9-one		5495-84-1	KE-24106	1 - 5
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one		71868-10-5	KE-24440	1 - 5
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide		75980-60-8	KE-12103	1 - 5
Glycerol, propoxylated, esters with acrylic acid		52408-84-1	KE-29348	<= 5

### 4. First aid measures

<b>A. In case of eye contact</b>	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
<b>B. In case of skin contact</b>	Wash the skin immediately with soap and water. In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily.
<b>C. In case of inhalation</b>	If dust from the material is inhaled, remove the affected person immediately to fresh air.  Move to fresh air in case of accidental inhalation of vapors or decomposition products. If breathing is difficult, give oxygen. Oxygen or artificial respiration if needed. Consult a physician for specific advice.
<b>D. In case of swallowing</b>	If swallowed, do NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.
<b>E. Note to physician</b>	Not available.

<b>Most important symptoms/effects, acute and delayed</b>	No experiences of acute or chronic damages in humans have been made yet.
<b>General advice</b>	Risk of skin burn caused by hot melt. Do not leave the victim unattended. Remove victim immediately from source of exposure. Victim to lie down in the recovery position, cover and keep him warm.

## 5. Fire-fighting measures

### A. Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media** Dry powder. Carbon dioxide (CO<sub>2</sub>). Water may be ineffective.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**B. Specific hazards arising from the chemical (example: hazardous combustion products)** Not available.

### C. Specific methods of fire-fighting

**Special protective equipment for firefighters** Avoid runoff into storm sewers and ditches which lead to waterways.

**Special fire fighting procedures** Avoid runoff into storm sewers and ditches which lead to waterways.

## 6. Accidental release measures

**A. Personal precautions, protective equipment and emergency measures** Wear appropriate personal protective equipment. Do not touch or walk through spilled material.

**B. Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

**C. Methods and materials for containment and cleaning up** Not available.

## 7. Handling and storage

**A. Precautions for safe handling** Avoid contact with skin, eyes and clothing.

**B. 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.

## 8. Exposure controls/personal protection

### A. Exposure limit values, biological limit values, etc

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.

**B. Appropriate engineering controls** Not available.

### C. Personal protective equipment

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

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

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

• **Body protection** Wear appropriate chemical resistant gloves.  
Wear appropriate chemical resistant 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.

## 9. Physical and chemical properties

### A. Appearance

**Physical state** Liquid.

**Form** Liquid.

<b>Color</b>	Light Cyan
<b>B. Odor</b>	Characteristic.
<b>C. Odor threshold</b>	Not available.
<b>D. pH</b>	6.8 - 7.2 Metler Toledo pH Meter. Temperature 25°C
<b>E. Melting point/freezing point</b>	Not available.
<b>F. Boiling point, initial boiling point, and boiling range</b>	Not available.
<b>G. Flash point</b>	300.2 °F (149.0 °C) Closed Cup EPA Method 1020
<b>H. Evaporation rate</b>	Not available.
<b>I. Flammability (solid, gas)</b>	Not available.
<b>J. Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>K. Vapor pressure</b>	Not available.
<b>L. Solubility</b>	
<b>Solubility (water)</b>	Not available.
<b>M. Vapor density</b>	Not available.
<b>N. Specific gravity</b>	Not available.
<b>O. n-octanol/water partition coefficient</b>	Not available.
<b>P. Auto-ignition temperature</b>	Not available.
<b>Q. Decomposition temperature</b>	Not available.
<b>R. Viscosity</b>	13.5 - 14.5 cP Brookfield Viscometer (± 0.5) Temperature 40°C. Spindle # 18 (S18) RPM 100. Wait approx 10 min to take the reading.
<b>S. Molecular weight</b>	Not available.
<b>Other data</b>	
<b>VOC</b>	3.95 g/L Method 24/ASTM D403-93

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## 10. Stability and reactivity

### A. Stability and hazardous reaction potential

<b>Stability</b>	Stable under normal storage conditions.
<b>Hazardous reaction potential</b>	Hazardous polymerization can occur with decreased inhibitor content.

**B. Conditions to avoid (e.g. static discharge, shock or vibration, etc)** Exposure to sunlight.

**C. Incompatible materials** Incompatible with strong bases and oxidizing agents. alkaline metals

**D. Hazardous decomposition products** Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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## 11. Toxicological information

### A. Information on likely routes of exposure

- **Respiratory organs** Inhalation may result in mild irritation to the respiratory system.
- **Skin** Causes skin irritation. May cause sensitization by skin contact.
- **Eyes** Causes serious eye irritation.
- **Mouth** May be harmful if swallowed.

### B. Information on health hazards

- **Acute toxicity (list all possible routes of exposure)** No data available.
- **Corrosivity or irritation to the skin** Causes skin irritation.
- **Serious eye damage/eye irritation** Causes serious eye irritation.

• <b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.
• <b>Skin sensitization</b>	May cause sensitization by skin contact.
• <b>Carcinogenic properties /Carcinogenicity</b>	Based on available data, the classification criteria are not met.
• <b>Mutagenic properties /Mutagenicity</b>	Based on available data, the classification criteria are not met.
• <b>Reproductive toxicity</b>	May damage fertility. May damage the unborn child.
• <b>Specific target organ toxicity - single exposure</b>	May cause irritation to the respiratory system.
• <b>Specific target organ toxicity - repeated exposure</b>	Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure.
• <b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

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## 12. Ecological information

<b>A. Ecotoxicity</b>	No data available.
<b>Aquatic toxicity</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This product has not been tested for ecological effects.
<b>B. Persistence/degradability</b>	Not available.
<b>C. Bioaccumulative potential</b>	Not available.
<b>D. Mobility in soil</b>	Not available.
<b>E. Other adverse effects</b>	Not available.

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## 13. Disposal considerations

<b>A. Method of disposal</b>	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.
<b>B. Disposal considerations (including disposal of contaminated containers or packaging)</b>	Not available.

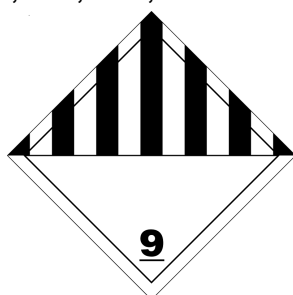
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## 14. Transport information

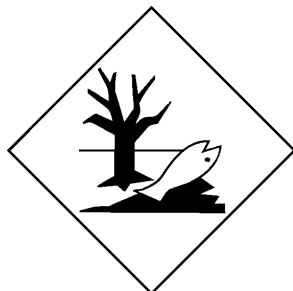
<b>DOT</b>	
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative), MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Special precautions for user</b>	Not available.
<b>DOT Supplemental Information</b>	DOT Classification only applies to shipments within the US and Puerto Rico.
<b>IATA</b>	
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative)
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>Special precautions for user</b>	Not available.
<b>IATA Supplemental Information</b>	When shipping ≤ 5L inner packaging, Special Provision A197 may apply.
<b>IMDG</b>	
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative), MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	9

<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Transport hazard class(es)</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-A, S-F
<b>Special precautions for user</b>	Not available.
<b>IMDG Supplemental Information</b>	When shipping ≤ 5L containers, IMDG 2.10.2.7 may apply.
<b>ADR</b>	
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative)
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Hazard No. (ADR)</b>	Not available.
<b>Tunnel restriction code</b>	Not available.
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>Special precautions for user</b>	Not available.

ADR; DOT; IATA; IMDG



Marine pollutant



## 15. Regulatory information

### A. Restrictions under the Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacturing

Not regulated.

#### Harmful Substances Requiring Permission for Manufacture or Use

Not regulated.

#### Controlled Hazardous Substances

Not regulated.

#### Harmful Substances Requiring Special Medical Examination

Not regulated.

#### Workplace Environmental Monitoring Harmful Materials

Not regulated.

#### Occupational Exposure Limit

Not regulated.

### B. Restrictions under the Chemicals Control Law (Previously Toxic Chemicals Control Law)

#### Accidental Release Prevention Substances

Not regulated.

#### Act on the Registration and Evaluation of Chemicals

##### Banned Toxic Chemicals

Not regulated.

**Designated Existing Chemicals Subject to Registration (PEC) (MoE No. 2015-92)**

Not listed.

**Restricted Chemical Substances**

Not regulated.

**Toxic Chemicals**

Not regulated.

**C. Restrictions under the Dangerous Substance Safety Management Act**

**D. Restrictions under the Wastes Control Act**

**Halogenated Materials in Waste Organic Solvents**

Not regulated.

**Hazardous Substances**

Not regulated.

**E. Restrictions under other foreign or domestic laws**

**Clean Air Conservation Act**

**Air Pollutants**

Not regulated.

**Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides (Rules on PIC, MoE No. 2014-252, Dec. 31, 2014; Standards for Pesticides, RDA No. 2014-26), as amended**

Not listed.

**Specific Air Pollutants**

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.

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**16. Other information**

**A. Source of information**

Not available.

**B. Issue date**

02-Jun-2013

**C. Number of revisions and date of most recent revision**

20-Apr-2020 (11 revision)

**D. Other**

Not available.

**Disclaimer**

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**Revision information**

1. Product and Company Identification: Synonyms

## Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds