



# 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** CH220Series

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

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## 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
Carboxylic Acids, Esters		Proprietary	<15
Difunctional acrylic monomer		Proprietary	<7.5
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
Blue Pigment		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
Benzophenone		119-61-9	<1
Glycerol, propoxylated, esters with acrylic acid		Proprietary	<1
Vinylester resin		Proprietary	<1

## 3. Dangers of the dangerous substance/preparation

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

**Physical hazards** Not classified as a physical hazard.

<b>Health hazards</b>	Irritating to eyes and skin. May cause sensitization by skin contact. Toxic: danger of serious damage to health by prolonged exposure through inhalation.	
<b>Environmental hazards</b>	Toxic to aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
<b>GHS classification</b>		
<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	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
<b>Environmental hazards</b>	Hazardous to the aquatic environment, long-term hazard	Category 2
<b>GHS label elements</b>		
<b>Symbols</b>		
<b>Signal word</b>	Danger	
<b>Hazard statement</b>	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.	
<b>Precautionary statement</b>		
<b>Prevention</b>	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.	
<b>Response</b>	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.	
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up.	
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Other hazards</b>	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).	
<b>Supplemental information</b>	None.	

## 4. First aid instructions

### First aid measures for different exposure routes

<b>Inhalation</b>	Move to fresh air. If symptoms persist, get medical attention.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
<b>Eye contact</b>	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.
<b>Ingestion</b>	If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.
<b>Main symptoms</b>	Not available.
<b>Personal protection for first-aid responders</b>	Not available.

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<b>Notes to physician</b>	Not available.
<b>Special first aid equipment</b>	Not available.

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## 5. Firefighting procedure

### Extinguishing media

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

<b>Environmental precautions</b>	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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<b>Methods for cleaning up</b>	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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<b>Other information</b>	Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations.
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<b>Personal precautions</b>	Wear appropriate personal protective equipment. Do not touch or walk through spilled material.
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## 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid contact with skin, eyes and clothing.
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<b>Conditions for safe storage, including any incompatibilities</b>	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

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

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

<b>Physical state</b>	Liquid.
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<b>Form</b>	Liquid.
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<b>Color</b>	Light Cyan
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<b>Odor</b>	Characteristic.
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<b>pH</b>	6.2 - 6.6 Metler Toledo pH Meter. Temperature 25°C
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<b>Melting point/freezing point</b>	Not available.
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<b>Initial boiling point and boiling range</b>	Not available.
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<b>Decomposition temperature</b>	Not available.
<b>Flash point</b>	> 199.9 °F (> 93.3 °C) Calculated
<b>Flammability</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Upper/lower 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>Oxidizing properties</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Density</b>	1.05 g/cm3
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Other information</b>	
<b>Chemical family</b>	Acrylate/Polymer/Pigment Blend
<b>Viscosity</b>	9.3 - 10.6 cP Brookfield Viscometer Temperature 50°C
<b>VOC</b>	< 95 g/L Calculated

## 10. Stability and reactivity

<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable under normal storage conditions.
<b>Conditions to avoid</b>	Exposure to sunlight.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization can occur with decreased inhibitor content.
<b>Incompatibility</b>	Incompatible with strong bases and oxidizing agents. alkaline metals
<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Materials to avoid</b>	Not available.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Inhalation may result in mild irritation to the respiratory system.
<b>Skin contact</b>	Causes skin irritation. May cause sensitization by skin contact.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Ingestion is not a likely route of exposure.

**Toxicological data** Not available.

**Acute toxicity** May be harmful if swallowed.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Vinylcaprolactam		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	1700 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 1.6 mg/l
<b>Oral</b>		
LD50	Rat	1114 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	
<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>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Benzophenone (CAS 119-61-9)	2B Possibly carcinogenic to humans.
<b>Reproductive toxicity</b>	May damage fertility or 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.
<b>Chronic effects</b>	Not available.
<b>Other information</b>	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)	
	<b>Aquatic</b> <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)	
	<b>Aquatic</b> <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)	
<b>Aquatic</b> <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)
<b>Aquatic</b>		
<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)
<b>Environmental effects</b>	Not available.	
<b>Persistence and degradability</b>	Not available.	
<b>Mobility in soil</b>	Not available.	
<b>Other information</b>	Not available.	

### 13. Dangerous substance disposal methods

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

### 14. Transport information

#### DOT

<b>UN number</b>	Not available.
<b>UN proper shipping name</b>	Not Regulated
<b>Transport hazard class(es)</b>	
<b>Class</b>	Not available.
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not available.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<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.

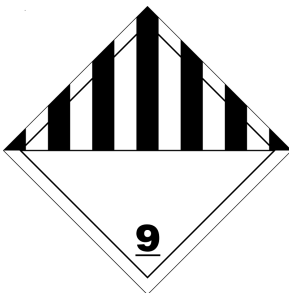
#### IATA

<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
<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.

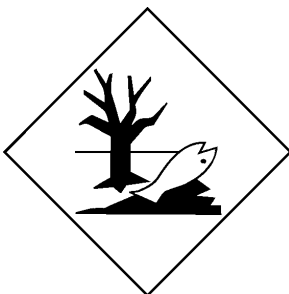
#### IMDG

<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates), MARINE POLLUTANT

<b>Transport hazard class(es)</b>	
Class	9
Subsidiary risk	-
<b>Packing group</b>	III
<b>Transport hazard class(es)</b>	
Marine pollutant	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>	
UN number	UN3082
UN proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
<b>Transport hazard class(es)</b>	
Class	9
Subsidiary risk	-
Hazard No. (ADR)	Not available.
Tunnel restriction code	Not available.
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>Special precautions for user</b>	Not available.
<b>ADR Supplemental Information</b>	When shipping ≤ 5L containers, ADR 375 may apply.
<b>ADR; IATA; IMDG</b>	



**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

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

**Bibliography**

Not available.

**Disclaimer**

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**Revision information**

1. Product and Company Identification: EU Poison Center

**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