SAFETY DATA SHEET

Section 1: Identification of the hazardous chemical and of the supplier

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. ***

Product identifier CH668 Series

Other means of identification

Synonyms HP XP222 Light Yellow Scitex Ink

Recommended use of the chemical and restrictions on use

Recommended use Inkjet printing

Recommended restrictions None known.

Details of principal suppliers

HP Towers, Block B, Level 5
Bukit Damansara,
50490 Kuala Lumpur

Telephone (603) 2332 3333

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

Section 2: Hazard identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
	Reproductive toxicity (fertility, the unborn child)	Category 1B
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	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

Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility. May damage the unborn child. 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 breathe dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. 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. Get medical attention/advice if you feel unwell. Collect spillage. Take off contaminated clothing and wash 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.
Supplemental information	None.

Section 3: Composition and information of the ingredients of the hazardous chemical

Mixtures

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
Acrylic acid ester		Proprietary	<30
Acrylic acid, Monoalkyl Ester		Proprietary	<25
Vinylcaprolactam		Proprietary	<20
Acrylate ester 5		Proprietary	<2.5
Difunctional acrylic monomer		Proprietary	<2.5
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide		Proprietary	<2.5
Propiophenone derivative		Proprietary	<2.5
Azo-nickel complex		Proprietary	<1

Non-hazardous components

Chemical name	Common name and synonyms	CAS number	%
Polyether acrylate		Proprietary	<25

Section 4: First-aid measures

Inhalation	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.
Skin contact	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.
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 swallowed, do NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	No experiences of acute or chronic damages in humans have been made yet.
Indication of immediate medical attention and special treatment needed	Not available.
General information	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.

Section 5: Fire-fighting measures

Suitable extinguishing media	Dry powder. Carbon dioxide (CO_2). Water may be ineffective.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Avoid runoff into storm sewers and ditches which lead to waterways.
Fire fighting equipment/instructions	Avoid runoff into storm sewers and ditches which lead to waterways.

HAZCHEM code	None.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	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 and materials for containment and cleaning up	Not available.

Section 7: Handling and storage

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

Section 8: Exposure controls and personal protection

Occupational 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	Wear appropriate chemical resistant gloves. Recommended gloves: Nitrile 6 mil minimum thickness.
Other	Wear appropriate chemical resistant gloves. 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.

Section 9: Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Light yellow.
Odor	Characteristic.
Odor threshold	Not available.
pH	6.8 - 7.2 Metler Toledo pH Meter. Temperature 25°C
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 200.0 °F (> 93.3 °C) Closed Cup EPA Method 1020
Evaporation rate	Not available.
Flammability (solid, gas)	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.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	13.5 - 14.5 cP Brookfield Viscometer (± 0.5) Temperature 45°C. Spindle # 18 (S18) RPM 100. Wait approx 10 min to take the reading.
Other information	
VOC	26.57 g/L Method 24/ASTM D403-93

Section 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.

Section 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.
Symptoms related to the physical, chemical and toxicological characteristics	Not available.

Information on toxicological effects

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	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

Azo-nickel complex (CAS Proprietary)	1 Carcinogenic to humans.

Reproductive toxicity	May damage fertility. May damage 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.

Further information Complete toxicity data are not available for this specific formulation

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

Section 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
Acrylic acid ester			
Acute			
	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			
Acute			
Crustacea	EC50	Daphnia magna	1.21 mg/l, 48 h (Directive CE 79/831/CEE, Annex V, Part C)
Acrylic acid, Monoalkyl Ester			
Acute			
	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)
Chronic			
	LOEC	Daphina magna	> 0.25 µg/l, 21 d (OECD 211)
Aquatic			
Chronic			
Crustacea	NOEC	Daphnia magna	0.25 µg/l, 21 d (OECD 211)
Fish	LOEC	Danio rerio	> 1 µg/l, 36 d (OECD 210)
Difunctional acrylic monomer			
Acute			
	EC10	Pseudokirchneriella subcapitata	2.3 mg/l, 72 h (OECD 201)
	EC50	Pseudokirchneriella subcapitata	11 mg/l, 72 h (OECD 201)
Aquatic			
Acute			
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			
Acute			
	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			
Acute			
Crustacea	EC50	Daphnia magna	3.53 mg/l, 48 h (OECD 202)

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Bioconcentration factor (BCF)

Acrylic acid, Monoalkyl Ester	2.34, (EPA Epiwin (v.4.11))
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)

Mobility in soil Not available.

Other adverse effects Not available.

Section 13: Disposal information

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.

Waste from residues / unused products Not available.

Contaminated packaging Not available.

Section 14: Transportation information

DOT

Not regulated as dangerous goods.

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, Propiophenone derivative)
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, Propiophenone derivative), 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.

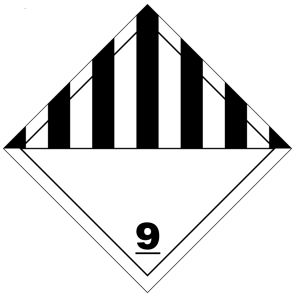
IMDG Supplemental Information When shipping ≤ 5L containers, IMDG 2.10.2.7 may apply.

ADR

UN number UN3082
UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative)
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

HAZCHEM code None.

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Active Ingredients of Pesticide Product (Pesticide Act 1974, First Schedule, as amended through October 1, 2004)

Not regulated.

CWC (Chemical Weapons Convention) Act 2005, Schedules 1-3, as amended through CWC Regulations 2007, October 5, 2007)

Not regulated.

Ozone Depleting Substances (ODS) (Environmental Quality (Prohibition on the Use of CFC and Other Gases as Propellants and Blowing Agents) Order 1993, Dec. 31, 1993)

Not regulated.

Prohibited Use of Substances [Occupational Safety and Health (Prohibition of Use of Substance) Order 1999]

Not 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.

Section 16: Other information

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Version # 04

References Not available.

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Revision information 1. Product and Company Identification: EU Poison Center
3. Composition / Information on Ingredients: Disclosure Overrides

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