



MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

A. Product name TestATNseries
Synonym(s) HP FB210 Black Scitex Ink

B. Recommended use and Limitations on use

Recommended use Inkjet printing

C. Supplier information

HP Korea House
23-6 Yoido-dong
Youngdeungpo-gu
Seoul 150-742, Korea

Telephone (02) 2199-0114

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

A. Hazard category/Classification

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

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.
H335	May cause respiratory irritation.
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

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.

P273	Avoid release to the environment.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P271	Use only outdoors or in a well-ventilated area.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands thoroughly after handling.

Response

P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical attention/advice.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.
P362	Take off contaminated clothing and wash before reuse.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

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.

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

Supplemental information None.

3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
TRADE SECRET		Proprietary	Proprietary	<25
Acrylic acid ester		Proprietary	Proprietary	<20
Acrylate ester 3		Proprietary	Proprietary	<15
Glycerol, propoxylated, esters with acrylic acid		Proprietary	Proprietary	<15
Acrylic acid, Monoalkyl Ester		Proprietary	Proprietary	<10
Carbon Black Test		Mixture		<7.5
9H-THIOXANTHEN-9-ONE, 2-(1-METHYLETHYL)-		5495-84-1	KE-24106	<5
Diphenyl (2,4,6-trimethylbenzoyl) phosphine		Proprietary	Proprietary	<5
Vinylcaprolactam		Proprietary	Proprietary	<5
Substituted Phosphine Oxide		Proprietary	Proprietary	<1
Vinylester resin	Propionic acid, 2-methyl-3,3'-(phenylphosphinylidene)di-, diallyl ester		KE-24042	<1
1-butanol		71-36-3	KE-03867	<0.1
4-Methoxyphenol		150-76-5	KE-23353	<0.1
Genorad 16 Proprietary Stabilizer		Proprietary		<0.1
Octyl decyl acrylate		Proprietary		<0.1

4. First aid measures

A. In case of 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.

B. In case of skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
C. In case of inhalation	Move to fresh air. If symptoms persist, get medical attention.
D. In case of swallowing	If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.
E. Note to physician	Not available.

5. Fire-fighting measures

A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	Dry powder. Carbon dioxide (CO ₂). Water may be ineffective.
Unsuitable extinguishing media	Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.

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

C. Specific methods of fire-fighting

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

Korea. OELs. Standards for Exposure to Chemical Substances and Physically Hazardous Factors

Components	Type	Value
1-butanol (CAS 71-36-3)	Ceiling	150 mg/m ³ 50 ppm
4-Methoxyphenol (CAS 150-76-5)	TWA	5 mg/m ³

US. ACGIH Threshold Limit Values

Components	Type	Value
1-butanol (CAS 71-36-3)	TWA	20 ppm
4-Methoxyphenol (CAS 150-76-5)	TWA	5 mg/m ³

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Exposure limits have not been established for this product.

Korea OELs: Skin designation

1-butanol (CAS 71-36-3)	Substance can be absorbed through membrane, eye and skin and can cause whole body effects (It does not mean skin irritant).
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B. Appropriate engineering controls Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.

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 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.
Color	Black.

B. Odor Characteristic.

C. Odor threshold Not available.

D. pH Not available.

E. Melting point/freezing point Not available.

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

G. Flash point > 212.0 °F (> 100.0 °C) Closed Cup EPA Method 1020

H. Evaporation rate Not available.

I. Flammability (solid, gas) Not available.

J. Upper/lower limit on flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

K. Vapor pressure Not available.

L. Solubility

Solubility (water) Not available.

M. Vapor density Not available.

N. Specific gravity Not available.

O. n-octanol/water partition coefficient Not available.

P. Auto-ignition temperature Not available.

Q. Decomposition temperature Not available.

R. Viscosity Not available.

S. Molecular weight Not available.

Other data

VOC < 95 g/L Method 24/ASTM D5409-93

10. Stability and reactivity**A. Stability and hazardous reaction potential**

Stability Stable under normal storage conditions.

Hazardous reaction potential 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.

11. Toxicological information**A. Information on likely routes of exposure**

- **Respiratory organs** Not available.
- **Skin** Not available.
- **Eyes** Not available.
- **Mouth** Not available.

B. Information on health hazards

- **Acute toxicity (list all possible routes of exposure)** Based on available data, the classification criteria are not met.
- **Corrosivity or irritation to the skin** Causes skin irritation.
- **Serious eye damage/eye irritation** Causes serious eye irritation.
- **Respiratory sensitization** Based on available data, the classification criteria are not met.
- **Skin sensitization** May cause sensitization by skin contact.
- **Carcinogenic properties /Carcinogenicity** Based on available data, the classification criteria are not met.

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.
- **Mutagenic properties /Mutagenicity** Based on available data, the classification criteria are not met.
- **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.

12. Ecological information

- A. Ecotoxicity** No data available.
- 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.
- B. Persistence/degradability** Not available.
- C. Bioaccumulative potential**
- | | |
|--|------|
| Octanol/water partition coefficient log Kow | |
| 1-butanol | 0.88 |
| 4-Methoxyphenol | 1.58 |
- D. Mobility in soil** Not available.
- E. Other adverse effects** Not available.

13. Disposal considerations

- A. Method of disposal** 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. Disposal considerations (including disposal of contaminated containers or packaging)** Not available.

14. Transport 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.

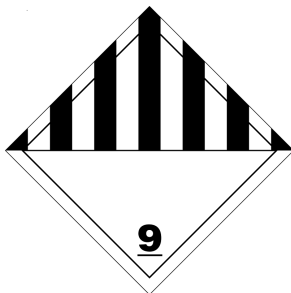
IMDG Supplemental Information When shipping ≤ 5L containers, IMDG 2.10.2.7 may apply.

ADR

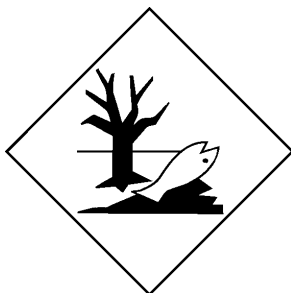
UN number UN3082
UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative)
Transport hazard class(es)
Class 9
Subsidiary risk -
Hazard No. (ADR) Not available.
Tunnel restriction code Not available.
Packing group III
Environmental hazards Yes
Special precautions for user Not available.

ADR Supplemental Information When shipping ≤ 5L containers, ADR 375 may apply.

ADR; IATA; IMDG



Marine pollutant



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

4-METHOXYPHENOL (CAS 150-76-5)

N-BUTYL ALCOHOL (1-BUTANOL) (CAS 71-36-3)

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

Accidental Release Prevention Substances

Not regulated.

Observational 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.

Specific Air Pollutants

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.

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.

16. Other information

A. Source of information

Not available.

B. Issue date

02-Mar-2018

C. Number of revisions and date of most recent revision

Not applicable.

D. Other

Not available.

Disclaimer

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

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