



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the preparation CQ123Series

Synonym(s) HP FB251 White Scitex Ink Cartridge

Version # 07

Revision date 09-Mar-2011

Company identification Hewlett-Packard Company
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2. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation.
May cause sensitization by skin contact.

Acute health effects

Skin contact Contact causes skin irritation.
May cause sensitization by skin contact.

Eye contact Irritating to eyes.

Inhalation Avoid breathing vapors or mists of this product.

Ingestion Ingestion is not expected to be a primary route of exposure for this product under normal use conditions.

Potential health effects

Routes of exposure Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

Carcinogenicity Titanium dioxide is classified by IARC as a Group 2B carcinogen, meaning there is inadequate evidence in humans for the carcinogenicity of titanium dioxide, but there is sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide. Exposure to titanium dioxide in this product is unlikely because it is a component of a liquid ink and is bound to other ink components.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Cyclic Trimethylolpropane Formal Acrylate	Mixture	25 - 30
Titanium Dioxide Pigment Blend	13463-67-7	25 - 30
Vinyl Caprolactam	Mixture	20 - 25
Diphenyl (2,4,6-trimethylbenzoyl) phosphineoxide	75980-60-8	2.5 - 5
Modified Polyacrylate	Mixture	2.5 - 5

4. First Aid Measures

First aid procedures

Eye contact 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.

Skin contact	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse. Get medical attention.
Inhalation	Move person to fresh air immediately. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	Rinse mouth out with water. If swallowed, do NOT induce vomiting. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	Do not use water jet.

Protection of firefighters

Protective equipment and precautions for firefighters	Cool containers exposed to flames with water until well after the fire is out. Avoid runoff into storm sewers and ditches which lead to waterways.
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Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.
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6. Accidental Release Measures

Personal precautions	Avoid contact with skin and eyes. Avoid inhalation of vapors or mists.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean with detergents. Avoid solvents.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use only in well-ventilated areas. Keep container closed. Keep away from excessive heat, sparks, and open flames. Wear personal protective equipment. Avoid eating, drinking and smoking when using the product. Wash hands before eating.
Storage	Keep only in original container. Keep upright. Keep in cool, well-ventilated place away from ignition sources, oxidizing agents, strong alkalis, and strong acids. To maintain product quality, do not store in heat or direct sunlight.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Type	Value
Titanium Dioxide Pigment Blend (13463-67-7)	TWA	10.0000 mg/m3

U.S. - OSHA

Components	Type	Value	Form
Titanium Dioxide Pigment Blend (13463-67-7)	PEL	15.0000 mg/m3	Total dust.
	TWA	10.0000 mg/m3	Total dust.

U.S. - Tennessee

Components	Type	Value	Form
Titanium Dioxide Pigment Blend (13463-67-7)	TWA	10.0000 mg/m3	Total dust.

Engineering controls	Provide adequate general and local exhaust ventilation. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.
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Personal protective equipment

Eye / face protection	Wear splash-proof eye goggles to prevent any possibility of eye contact.
Skin protection	Wear appropriate chemical resistant clothing.
General hygiene considerations	Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse.

9. Physical & Chemical Properties

Appearance	Not available.
Color	White.
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not available.
Flash point	> 212 °F (> 100 °C) Closed Cup
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Relative density	Not available.
Solubility (water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	< 95 g/L

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Contact with peroxides. Strong acids. Reacts violently with strong alkaline substances. Avoid contact with oxidizing agents. Protect against direct sunlight.

11. Toxicological Information

Carcinogenicity	Not a known carcinogen.
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ACGIH Carcinogens

Titanium Dioxide Pigment Blend (CAS 13463-67-7)	A4 Not classifiable as a human carcinogen.
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IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium Dioxide Pigment Blend (CAS 13463-67-7)	2B Possibly carcinogenic to humans.
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IARC Monographs: Evidence of carcinogenicity in humans

Titanium Dioxide Pigment Blend (CAS 13463-67-7)	Inadequate data.
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Acute toxicity	The liquid splashed in the eyes may cause irritation and reversible damage. Prolonged skin contact may cause redness and irritation.
Serious eye damage/eye irritation	Not available.
Skin sensitization	Not available.
Sensitization	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Mutagenicity	None known.

Teratogenicity None known.

Symptoms and target organs

Target Organs (NIOSH)

Titanium Dioxide Pigment Blend (CAS 13463-67-7) Respiratory system

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

12. Ecological Information

Environmental effects No data available for this product.

Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions Do not allow this material to drain into sewers/water supplies.
Dispose of in compliance with federal, state, and local regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory Information

CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 No
hazardous chemical

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Titanium Dioxide Pigment Blend (CAS 13463-67-7) Listed.

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

HMIS® ratings Health: 2
Flammability: 1
Physical hazard: 2

NFPA ratings Health: 2
Flammability: 1
Instability: 2

Disclaimer

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Issue date

09-Mar-2011

This data sheet contains changes from the previous version in section(s):

Hazards Identification: Carcinogenicity

Manufacturer information

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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