



MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

Product name	CD518 Series
Recommended use of the chemical and restrictions on use	
Intended use	Inkjet printing
Company identification	Hewlett-Packard Japan, Ltd. 2-2-1 Ojima, Koto-ku, Tokyo, 136-8711 Japan Telephone (+81) 3 5628-1101
	Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com Poison Information Centre 0120-50-3024

2. Hazards identification

Classification	Xn;R22, Xi;R36
Physical hazards	Not classified as a physical hazard.
Health hazards	Harmful if swallowed. Irritating to eyes.
Environmental hazards	Not classified as an environmental hazard.
Other hazards	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. Diphenyl (2,4,6-trimethylbenzoyl) phosphineoxide - In animal testing, risk of impaired fertility was shown only after repeated ingestion of very high doses of this substance.

3. Composition/information on ingredients

Substance or mixture	Mixture	
Components	CAS #	Percent
2-phenoxyethyl Acrylate	48145-04-6	<50
Polyether Acrylate		<15
Dipentaerythritol pentaacrylate esters	60506-81-2	<7.5
Difunctional acrylic monomer	84170-74-1	<5
Diphenyl (2,4,6-trimethylbenzoyl) phosphine	75980-60-8	<5
Propiophenone derivative	Proprietary	<2.5
Carbon black	1333-86-4	<1

Synonym(s)	HP XP221 Light Black Scitex Ink
Composition comments	Carbon black is present only in a bound form in this preparation.

4. First aid measures

If inhaled	Move to fresh air. If symptoms persist, get medical attention.
If on skin	Wash affected area with mild soap and water. If irritation persists get medical attention.
If in eyes	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.
If swallowed	If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

Most important symptoms and effects No data available

5. Fire-fighting measures

Flash point Not available.
Extinguishing media Dry powder. Carbon dioxide (CO₂). Water may be ineffective.
Extinguishing media to avoid Water.
Protection of fire-fighters Avoid runoff into storm sewers and ditches which lead to waterways.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures Wear appropriate personal protective equipment.
Environmental precautions Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
Clean-up methods and materials and containment measures Not available.

7. Handling and storage

Handling

Technical measures Not available.
Local and general ventilation Not available.
Precautions Not available.
Safe handling advice Avoid contact with skin, eyes and clothing.

Storage

Technical measures Do not handle or store near an open flame, heat or other sources of ignition. Keep away from excessive heat or cold. Do not store in direct sunlight.
Suitable storage conditions Not available.
Incompatible products No data.
Safe packaging materials Not available.

8. Exposure controls/personal protection

Occupational exposure limits

Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	4 mg/m ³	Total dust.
		1 mg/m ³	Respirable dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m ³	Inhalable fraction.

Recommended monitoring procedures

Additional exposure data Exposure limits have not been established for this product.

Engineering measures

Use in a well ventilated area.
 Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.

Personal protective equipment

Respiratory protection Not available.
Hand protection Nitrile rubber.
Eye protection Not available.
Skin and body protection Not available.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Launder contaminated clothing before reuse. Keep away from food and drink.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Color	Black.
Odor	Characteristic.
Odor threshold	No information available.
pH	Not applicable.
Melting point/Freezing point	Not determined.
Boiling point, initial boiling point, and boiling range	Not determined.
Flash point	Not available.
Auto-ignition temperature	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not determined.
Evaporation rate	Not determined.
Specific gravity	Not available.
Solubility	Not available.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Other data	
Oxidizing properties	Not determined
VOC (Weight %)	< 95 g/L

10. Stability and reactivity

Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.
Conditions to avoid	Exposure to sunlight.
Incompatible materials	oxidizing agents alkaline metals strong bases
Hazardous decomposition products	Nitrogen oxides (NO _x). Carbon monoxide hydrocarbons

11. Toxicological information

General information Not available.

Information on likely routes of exposure

Ingestion	Not available.
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.

Symptoms Not available.

Acute toxicity

Components	Species	Test Results
Carbon black (CAS 1333-86-4)		
Acute		
<i>Oral</i>		
LD50	Rat	> 8000 mg/kg

Carcinogenicity

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.

ACGIH Carcinogens

CARBON BLACK, INHALABLE FRACTION (CAS 1333-86-4) A3 Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Japan Society for Occupational Health: Carcinogen

CARBON BLACK (CAS 1333-86-4) 2B Probable carcinogen. Less evidence exists.

Specific target organ toxicity - single exposure No data available.

Specific target organ toxicity - repeated exposure No data available

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

12. Ecological information

Ecotoxicity Not available.

Mobility in soil No data available.

13. Disposal considerations

Contaminated packaging No special precautions.

Local disposal regulations 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.

14. Transport information**International regulations****IATA**

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

15. Regulatory information**Industrial Safety and Health Act****Specified substances regulation****Class 1 designated chemical substances**

Not regulated.

Class 2 designated chemical substances

Not regulated.

Class 3 designated chemical substances

Not regulated.

Organic solvent regulation**Class 1 organic solvents**

Not regulated.

Class 2 organic solvents

Not regulated.

Class 3 organic solvents

Not regulated.

Notifiable substances

CARBON BLACK

0 - 1.0 %

Labeling substances

Not regulated.

Poisonous and Deleterious Substances Control Act**Specified poisonous substances**

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.**Class I specified chemical substances**

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

Not regulated.

Law concerning Pollutant Release and Transfer Register**Specified class 1 substances (substance name, ordinance number and content)**

Not regulated.

Class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Fire Service Act

Class 4 Group 3 oils (Non-water soluble) Hazard rank III

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule

Not regulated.

Air Law, Enforcement Rule

Not regulated.

Explosives Control Act

Not regulated.

High Pressure Gas Safety Act

Not regulated.

Act on Prevention of Marine Pollution and Maritime Disaster

Not regulated.

Waste Management and Public Cleansing Act

Not regulated.

16. Other information

This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company 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.

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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