



# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

**Product name** 40-6431

### 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, R52/53

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

**Health hazards** Harmful if swallowed. Irritating to eyes. Possible risk of impaired fertility.

**Environmental hazards** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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	<40
N-vinylcaprolactam	2235-00-9	<25
Dipentaerythritol pentaacrylate esters	60506-81-2	<20
Diphenyl (2,4,6-trimethylbenzoyl) phosphine	75980-60-8	<7.5
Difunctional acrylic monomer	84170-74-1	<5
Carbon black	1333-86-4	<2.5
Propiophenone derivative	Proprietary	<2.5

**Synonym(s)** HP XP221 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 (CO<sub>2</sub>). 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 <sup>3</sup>	Total dust.
		1 mg/m <sup>3</sup>	Respirable dust.

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	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

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

## 10. Stability and reactivity

<b>Stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization can occur with decreased inhibitor content.
<b>Conditions to avoid</b>	Exposure to sunlight.
<b>Incompatible materials</b>	oxidizing agents alkaline metals strong bases
<b>Hazardous decomposition products</b>	Nitrogen oxides (NO <sub>x</sub> ). 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)		
<b>Acute</b>		
<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 - 2.5 %

**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.

<b>Version number</b>	01
<b>Issue date</b>	30-Sep-2013
<b>Manufacturer information</b>	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US (Direct) +972 (9) 892-4628

---

**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