

MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

Product name CP809Series

Company identification Hewlett-Packard Japan, Ltd.
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2. Hazards identification

Classification Xn;R48/20, Xi;R36/37/38, R43, N;R51/53

Physical hazards Not classified as a physical hazard.

Health hazards Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

Emergency overview Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards 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.

3. Composition/information on ingredients

| Substance or mixture | Mixture | |
|------------------------------|-------------|---------|
| Components | CAS # | Percent |
| Acrylic acid ester | 48145-04-6 | <40 |
| Octyl decyl acrylate | Proprietary | <20 |
| Vinyl caprolactam | 2235-00-9 | <20 |
| Aliphatic Urethane Acrylate | 63225-53-6 | <5 |
| Carbon black | 1333-86-4 | <5 |
| Proprietary initiator | Proprietary | <5 |
| Urethane acrylate oligomer A | Proprietary | <5 |
| Urethane acrylate oligomer B | Proprietary | <5 |

Synonym(s) HP TJ220 Specialty 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 areas thoroughly 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. Never give anything by mouth to an unconscious person.

Most important symptoms and effects No data available

5. Fire-fighting measures

Flash point 242.60 °F (117.00 °C) Closed Cup

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. 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.

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.

Personal protective equipment

Respiratory protection Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Not available.

Eye protection Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

Skin and body protection Wear appropriate chemical resistant gloves.
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

Appearance

| | |
|--|----------------------------------|
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Black. |
| Odor | Characteristic. |
| Odor threshold | No information available. |
| pH | Not available. |
| Melting point/Freezing point | Not available. |
| Boiling point, initial boiling point, and boiling range | Not available. |
| Flash point | 242.60 °F (117.00 °C) Closed Cup |
| Auto-ignition temperature | Not available. |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Specific gravity | Not available. |
| Solubility | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Decomposition temperature | Not available. |
| Other data | |
| VOC (Weight %) | 20 g/L Method 24/ASTM D5403-93 |

10. Stability and reactivity

| | |
|---|---|
| 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. |

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 | Causes skin irritation. |

| Components | Species | Test Results |
|---|---|--------------|
| Carbon black (CAS 1333-86-4) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Rat | > 8000 mg/kg |
| Skin corrosion/irritation | Non-corrosive (OECD 431) | |
| Serious eye damage/eye irritation | Causes eye irritation. | |
| 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. Carbon black is present only in a bound form in this preparation. | |
| 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 | No data available. |
| Aquatic toxicity | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| Bioaccumulation | |
| Mobility in soil | No data available. |

13. Disposal considerations

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|-----------------------------------|--|
| 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. |

Specified substances regulation**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.

Regulatory information

The components of this product are reported in the following inventories: European Union, United States of America, Canada, New Zealand, and Japan.

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 |