MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

Product name CN890Series

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 Xi;R36/38, R43, R52/53

Physical hazards Not classified as a physical hazard.

Health hazards Irritating to eyes and skin. May cause sensitization by skin contact.

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

3. Composition/information on ingredients

Substance or mixture Mixture

Components	CAS #	Percent
multifunctional acrylate	Proprietary	25 - 40
Diacrylate Compound 1	13048-33-4	10 - 25
N-vinylcaprolactam	2235-00-9	10 - 25
Diphenyl (2,4,6-trimethylbenzoyl) phosphine	75980-60-8	2.5 - 5
Tridecyl Acrylate	3076-04-8	2.5 - 5
Benzophenone Derivative	119-61-9	1 - 2.5
1-Butanone, 2-(dimethylamino)-1- [4-(4-morpholinyl)phenyl]-2- (phenylmethyl)-	119313-12-1	< 1

Synonym(s) HP FB200 Lt Black Scitex Ink

4. First aid measures

If inhaled Move to fresh air. Keep victim warm. If symptoms persist, get medical attention.

If on skin Remove contaminated clothing. Wash affected area with mild soap and water. Do not use solvents to remove product residues from skin. If irritation persists get medical attention.

If in eyes In case of accidental skin or eye contact, avoid exposure to ultra-violet light. Do not rub eyes. Remove contact lenses, if present and easy to do. 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 chemical, foam, carbon dioxide, water fog.
Extinguishing media to avoid	Do not use water jet.
Specific hazards	Fire will produce dense black smoke containing hazardous combustion products (see section 10).
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	Remove all sources of ignition. Ensure adequate ventilation. Avoid inhalation of vapors or mists. 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	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Clean with detergents. Avoid solvents.

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

Recommended monitoring procedures

Additional exposure data	None established.
Engineering measures	Use in a well ventilated area. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapor below the OEL, suitable respiratory protection must be worn. Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.

Personal protective equipment

Respiratory protection	A NIOSH- approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Hand protection	Wear appropriate chemical resistant gloves.
Eye protection	Wear safety glasses; chemical goggles (if splashing is possible).
Skin and body protection	Use personal protective equipment to minimize exposure to skin and eye. Use impervious gloves.
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	Not available.
Odor threshold	No information available.

pH	Not applicable.
Melting point/Freezing point	Not determined.
Boiling point, initial boiling point, and boiling range	559.4 °F (293 °C)
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	
VOC (Weight %)	< 95 g/L

10. Stability and reactivity

Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Not available.
Conditions to avoid	None.
Incompatible materials	Strong acids, alkalies and oxidizing agents. Strong acids and strong alkalis. oxidizing agents
Hazardous decomposition products	Nitrogen oxides (NOx)., smoke, Carbon monoxide and carbon dioxide.

11. Toxicological information

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

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
Benzophenone Derivative (CAS 119-61-9)		
Acute		
Oral		
LD50	Mouse	2895 mg/kg
Other		
LD50	Mouse	727 mg/kg
Diacrylate Compound 1 (CAS 13048-33-4)		
Acute		
Dermal		
LD50	Rabbit	3600 mg/kg
Oral		
LD50	Rat	5 g/kg

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzophenone Derivative (CAS 119-61-9) 2B Possibly carcinogenic to humans.

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

Ecotoxicological data

Components		Species	Test Results
Benzophenone Derivative (CAS 119-61-9)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	9.64 - 12.31 mg/l, 96 hours

Ecotoxicity No data available.

Aquatic toxicity Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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
Not regulated.

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)

1,6-HEXANEDIOL DIACRYLATE	Ordinance No. 306	10 %	(Diacrylate Compound 1)
BENZOPHENONE	Ordinance No. 403	1.0 %	(Benzophenone Derivative)

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