1. Identification

Product identifier: CN989 Series

Other means of identification:
- Synonyms: HP Scitex TJ100 Flash Black Ink

Recommended use: Inkjet printing.

Recommended restrictions: None known.

Company identification: HP Inc.

1501 Page Mill Road
Palo Alto, CA 94304-1112
United States
Telephone 650-857-5020

HP Inc. health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048

HP Inc. Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

2. Hazard(s) identification

Physical hazards: Flammable liquids Category 4

Health hazards:
- Acute toxicity, dermal Category 4
- Serious eye damage/eye irritation Category 1

Environmental hazards: Not classified.

OSHA defined hazards: Not classified.

Label elements

Signal word: Danger

Hazard statement: Combustible liquid. Harmful in contact with skin. Causes serious eye damage.

Precautionary statement:

Prevention
- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response
- P370 + P378 - In case of fire: Use sand, carbon dioxide (CO2) or dry chemical to extinguish.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTER or doctor/physician.
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
- P363 - Wash contaminated clothing before reuse.
- P312 - Call a POISON CENTER/doctor/physician if you feel unwell.

Storage
- P403 + P235 - Store in a well-ventilated place. Keep cool.

Disposal
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
- 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.

Supplemental information: None.

Material name: CN989 Series

11153 Version #: 04 Revision date: 25-Jan-2017 Issue date: 28-Apr-2015
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2-Butoxyethyl acetate</td>
<td></td>
<td>112-07-2</td>
<td>&lt;80</td>
</tr>
<tr>
<td></td>
<td>2-methoxy-1-methylethylacetate</td>
<td></td>
<td>108-65-6</td>
<td>&lt;15</td>
</tr>
<tr>
<td></td>
<td>Black Pigment</td>
<td>Proprietary</td>
<td></td>
<td>&lt;7.5</td>
</tr>
<tr>
<td></td>
<td>Cyclohexanone</td>
<td></td>
<td>108-94-1</td>
<td>&lt;7.5</td>
</tr>
<tr>
<td></td>
<td>Vinyl chloride-vinyl acetate copolymer</td>
<td>Proprietary</td>
<td></td>
<td>&lt;5</td>
</tr>
<tr>
<td></td>
<td>Ethyl Benzene</td>
<td></td>
<td>100-41-4</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

**Composition comments**: Carbon black is present only in a bound form in this preparation.

4. First-aid measures

**Inhalation**: Move person to fresh air immediately. If symptoms persist, get immediate medical attention.

**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, if needed.

**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.

**Ingestion**: Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice. -- Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Most important symptoms/effects, acute and delayed**: Not available.

5. Fire-fighting measures

**Suitable extinguishing media**: Suitable extinguishing media: sand, carbon dioxide (CO2), and dry chemical.

**Unsuitable extinguishing media**: Not available.

**Specific hazards arising from the chemical**: Not applicable.

**Special protective equipment and precautions for firefighters**: Firefighters should wear full protective clothing including self contained breathing apparatus. Avoid runoff into storm sewers and ditches which lead to waterways.

**Fire-fighting equipment/instructions**: Move containers from fire area if you can do it without risk.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**: Avoid contact with skin. Avoid inhalation of vapors or mists. Do not touch or walk through spilled material. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.

**Methods and materials for containment and cleaning up**: Not available.

**Environmental precautions**: Do not flush into surface water or sanitary sewer system.

7. Handling and storage

**Precautions for safe handling**: Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Wear personal protective equipment.

**Conditions for safe handling, including any incompatibilities**: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.
### 8. Exposure controls/personal protection

#### Occupational exposure limits

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Pigment (CAS Proprietary)</td>
<td>PEL</td>
<td>3.5 mg/m³</td>
</tr>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>PEL</td>
<td>200 mg/m³</td>
</tr>
<tr>
<td>Ethyl Benzene (CAS 100-41-4)</td>
<td>PEL</td>
<td>50 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>435 mg/m³</td>
</tr>
</tbody>
</table>

**US. ACGIH Threshold Limit Values**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethyl acetate (CAS 112-07-2)</td>
<td>TWA</td>
<td>20 ppm</td>
<td></td>
</tr>
<tr>
<td>Black Pigment (CAS Proprietary)</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>STEL</td>
<td>50 ppm</td>
<td></td>
</tr>
<tr>
<td>Ethyl Benzene (CAS 100-41-4)</td>
<td>TWA</td>
<td>20 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>20 ppm</td>
<td></td>
</tr>
</tbody>
</table>

**US. NIOSH: Pocket Guide to Chemical Hazards**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethyl acetate (CAS 112-07-2)</td>
<td>TWA</td>
<td>33 mg/m³</td>
</tr>
<tr>
<td>Black Pigment (CAS Proprietary)</td>
<td>TWA</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td>Ethyl Benzene (CAS 100-41-4)</td>
<td>STEL</td>
<td>25 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>125 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>435 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

**US. Workplace Environmental Exposure Level (WEEL) Guides**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-methoxy-1-methylethylacetate (CAS 108-65-6)</td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

#### Biological limit values

**ACGIH Biological Exposure Indices**

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>80 mg/l</td>
<td>1,2-Cyclohexanediol, with hydrolysis</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>8 mg/l</td>
<td>Cyclohexanol, with hydrolysis</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td>Ethyl Benzene (CAS 100-41-4)</td>
<td>0.7 g/g</td>
<td>Sum of mandelic acid and phenylglyoxylic acid</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.
Exposure guidelines

**US. ACGIH Threshold Limit Values**
Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

**US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants**
CYCLOHEXANONE (CAS 108-94-1) Can be absorbed through the skin.
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (CAS 108-65-6) Can be absorbed through the skin.

**US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).**
Cyclohexanone (CAS 108-94-1) Skin designation applies.

**US. NIOSH: Pocket Guide to Chemical Hazards**
Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

**US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A**
Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

Appropriate engineering controls
Not available.

Individual protection measures, such as personal protective equipment

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

**Skin protection**
Hand protection
Recommended gloves: Nitrile 6 mil minimum thickness.
Other
Wear appropriate chemical resistant clothing.

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

**Thermal hazards**
Not available.

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 and chemical properties

**Appearance**

**Physical state**
Not available.

**Color**
Black.

**Odor**
Solvent.

**Odor threshold**
Not available.

**pH**
Not available.

**Melting point/freezing point**
Not available.

**Initial boiling point and boiling range**
Not available.

**Flash point**
>= 149.0 °F (>= 65.0 °C) Closed Cup EPA Method 1020

**Evaporation rate**
Not available.

**Flammability (solid, gas)**
Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)**
Not available.

**Flammability limit - upper (%)**
Not available.

**Explosive limit - lower (%)**
Not available.

**Explosive limit - upper (%)**
Not available.

**Vapor pressure**
Not available.

**Solubility(ies)**

**Solubility (water)**
Not available.

**Partition coefficient (n-octanol/water)**
Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.
Other information: For other VOC regulatory data/information see Section 15.
VOC (Weight %): < 893 g/L EPA Method 1020

10. Stability and reactivity
Reactivity: Not available.
Chemical stability: Stable at normal conditions.
Possibility of hazardous reactions: None known.
Conditions to avoid: Heat, flames and sparks.
Incompatible materials: Not available.
Hazardous decomposition products: Not available.

11. Toxicological information
Symptoms related to the physical, chemical and toxicological characteristics: Not available.

Information on toxicological effects
Acute toxicity: Harmful in contact with skin.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation: Causes serious eye damage.
Respiratory or skin sensitization
  Respiratory sensitization: Based on available data, the classification criteria are not met.
  Skin sensitization: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
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.

IARC Monographs. Overall Evaluation of Carcinogenicity
  Black Pigment (CAS Proprietary) 2B Possibly carcinogenic to humans.
  Cyclohexanone (CAS 108-94-1) 3 Not classifiable as to carcinogenicity to humans.
  Vinyl chloride-vinyl acetate copolymer (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans.
  Reproductive toxicity: Based on available data, the classification criteria are not met.
  Specific target organ toxicity - single exposure: Based on available data, the classification criteria are not met.
  Specific target organ toxicity - repeated exposure: Based on available data, the classification criteria are not met.
  Aspiration hazard: Based on available data, the classification criteria are not met.
  Further information: Complete toxicity data are not available for this specific formulation.

Components

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethyl acetate (CAS 112-07-2)</td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Cat</td>
</tr>
<tr>
<td>Components</td>
<td>Species</td>
</tr>
<tr>
<td>------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Guinea pig</td>
<td>&gt; 460 ppm, 6 Hours</td>
</tr>
<tr>
<td>Mouse</td>
<td>&gt; 460 ppm, 6 Hours</td>
</tr>
<tr>
<td>Rabbit</td>
<td>&gt; 460 ppm, 6 Hours</td>
</tr>
<tr>
<td>Rat</td>
<td>&gt; 460 ppm, 6 Hours</td>
</tr>
</tbody>
</table>

**Oral**

- LD100 Rabbit 987 mg/kg
- LD50 Mouse 2820 mg/kg
- LD50 Rat 1600 mg/kg
- 7.46 ml/kg

**LD50 Mouse**

- Other 754 mg/kg

**LD50 Rat**

- Acute > 2000 mg/kg
- Dermal 17800 mg/kg
- Oral > 5000 mg/kg

**LD50 Other**

- 2-methoxy-1-methylethylacetate (CAS 108-65-6)
- Acute > 8000 mg/kg

**Other**

- 754 mg/kg

**LD50 Black Pigment (CAS Proprietary)**

- Acute > 8000 mg/kg

**LD50 Ethyl Benzene (CAS 100-41-4)**

- Acute > 8000 ppm, 20 Minutes
- Dermal 17800 mg/kg
- Oral > 5000 mg/kg

**12. Ecological information**

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>Fathead minnow (Pimephales promelas)</td>
<td>481 - 578 mg/l, 96 hours</td>
</tr>
<tr>
<td>Ethyl Benzene (CAS 100-41-4)</td>
<td>Water flea (Daphnia magna)</td>
<td>1.37 - 4.4 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
</tbody>
</table>
Persistence and degradability Not available.
Bioaccumulative potential Not available.

**Partition coefficient n-octanol / water (log Kow)**
- Cyclohexanone: 0.81
- Ethyl Benzene: 3.15

Mobility in soil Not available.
Other adverse effects Not available.

### 13. Disposal considerations

**Disposal instructions**
- 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

**DOT**
- **UN number**: NA1993
- **UN proper shipping name**: Combustible liquid n.o.s. (2-methoxy-1-methylethyl acetate, cyclohexanone) -Not regulated in quantities less than 119 gallons
- **Transport hazard class(es)**
  - **Class**: Combustible
  - **Subsidiary risk**: -
  - **Packaging group**: III
- **Special precautions for user**: Not available.

**DOT supplemental information**
DOT Classification only applies to shipments within the US and Puerto Rico.

**IATA**
- Not regulated as dangerous goods.

**IMDG**
- Not regulated as dangerous goods.

**ADR**
- Not regulated as dangerous goods.

### 15. Regulatory information

**US federal regulations**
- **US EPA TSCA Inventory**: All chemical substances in this product comply with all rules or orders under TSCA.
- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)** Not regulated.
- **CERCLA Hazardous Substance List (40 CFR 302.4)**
  - Cyclohexanone (CAS 108-94-1) Listed.
- **SARA 304 Emergency release notification** Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**
- **Hazard categories**
  - Immediate Hazard: Yes
  - Delayed Hazard: No
  - Fire Hazard: Yes
  - Pressure Hazard: No
  - Reactivity Hazard: No

**SARA 302 Extremely hazardous substance**
- Not listed.

**SARA 311/312 Hazardous chemical**
- No
Other federal regulations
Safe Drinking Water Act (SDWA) Not regulated.

US state regulations
US. Massachusetts RTK - Substance List
Black Pigment (CAS Proprietary)
Cyclohexanone (CAS 108-94-1)

US. New Jersey Worker and Community Right-to-Know Act
2-Butoxyethyl acetate (CAS 112-07-2)
Black Pigment (CAS Proprietary)
Cyclohexanone (CAS 108-94-1)

US. Pennsylvania Worker and Community Right-to-Know Law
Black Pigment (CAS Proprietary)
Cyclohexanone (CAS 108-94-1)

US. Rhode Island RTK
Cyclohexanone (CAS 108-94-1)

US. California Proposition 65
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE <= 10 MICROMETERS) (CAS Proprietary)
Listed: February 21, 2003

Other information
VOC content (less water, less exempt compounds) = < 893 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)

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, including date of preparation or last revision
Issue date 28-Apr-2015
Revision date 25-Jan-2017
Version # 04

Disclaimer
This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.

Revision Information
Physical & Chemical Properties: Multiple Properties

Manufacturer information
HP Inc.
1501 Page Mill Road
Palo Alto, CA 94304-1112 US
(Direct) +972 (9) 892-4628
### Explanation of abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response Compensation and Liability Act</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>COC</td>
<td>Cleveland Open Cup</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>EPCRA</td>
<td>Emergency Planning and Community Right-to-Know Act (aka SARA)</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
</tr>
<tr>
<td>REC</td>
<td>Recommended</td>
</tr>
<tr>
<td>REL</td>
<td>Recommended Exposure Limit</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act of 1986</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-Term Exposure Limit</td>
</tr>
<tr>
<td>TCLP</td>
<td>Toxicity Characteristics Leaching Procedure</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
</tbody>
</table>