



# SAFETY DATA SHEET

## 1. Identification

<b>Important information</b>	*** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. ***	
<b>Product identifier</b>	CN989 Series	
<b>Other means of identification</b>		
<b>Synonyms</b>	HP Scitex TJ100 Flash Black Ink	
<b>Recommended use</b>	Inkjet printing.	
<b>Recommended restrictions</b>	None known.	
<b>Manufacturer/Importer/Supplier/Distributor information</b>	HP Inc. 1501 Page Mill Road Palo Alto, CA 94304-1112 United States	
<b>Telephone</b>	650-857-1501	
<b>HP Inc. health effects line</b>		
(Toll-free within the US)	1-800-457-4209	
(Direct)	1-760-710-0048	
<b>HP Inc. Customer Care Line</b>		
(Toll-free within the US)	1-800-474-6836	
(Direct)	1-208-323-2551	
<b>Email:</b>	hpcustomer.inquiries@hp.com	

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable liquids	Category 4
<b>Health hazards</b>	Acute toxicity, dermal	Category 4
	Acute toxicity, inhalation	Category 4
	Serious eye damage/eye irritation	Category 1
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Combustible liquid. Harmful if inhaled. Causes serious eye damage. Harmful in contact with skin.
<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
<b>Response</b>	In case of fire: Use sand, carbon dioxide (CO2) or dry chemical to extinguish. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse.
<b>Storage</b>	Store in a well-ventilated place. Keep cool.

<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.
<b>GHS Supplemental information</b>	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethyl acetate		112-07-2	<70
2-methoxy-1-methylethylacetate		Proprietary	<15
Cyclohexanone		108-94-1	<7.5
Vinyl chloride-vinyl acetate copolymer*		Proprietary*	<7.5
Black Pigment*		Proprietary*	<5

**Composition comments** This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

\*Proprietary

### 4. First-aid measures

<b>Inhalation</b>	Move person to fresh air immediately. If symptoms persist, get immediate medical attention.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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.
<b>Most important symptoms/effects, acute and delayed</b>	Not available.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Suitable extinguishing media: sand, carbon dioxide (CO2), and dry chemical.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	None known.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus. Avoid runoff into storm sewers and ditches which lead to waterways.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do it without risk.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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.
<b>Methods and materials for containment and cleaning up</b>	Not available.
<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system.

### 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Wear personal protective equipment.
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Conditions for safe storage,  
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)

Components	Type	Value
Black Pigment	PEL	3.5 mg/m3
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3  50 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
2-Butoxyethyl acetate (CAS 112-07-2)	TWA	20 ppm	
Black Pigment	TWA	3 mg/m3	Inhalable fraction.
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
	TWA	20 ppm	

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

Components	Type	Value
2-Butoxyethyl acetate (CAS 112-07-2)	TWA	33 mg/m3  5 ppm
Black Pigment	TWA	0.1 mg/m3
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3  25 ppm

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

Components	Type	Value
Propylene glycol monomethyl ether acetate	TWA	50 ppm

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*

\* - 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 Proprietary) 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**

<b>Eye/face protection</b>	Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
<b>Skin protection</b>	
<b>Hand protection</b>	Recommended gloves: Nitrile 6 mil minimum thickness.
<b>Other</b>	Wear appropriate chemical resistant clothing.
<b>Respiratory protection</b>	Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.
<b>Thermal hazards</b>	Not available.
<b>General hygiene considerations</b>	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.

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**9. Physical and chemical properties****Appearance**

<b>Physical state</b>	Not available.
<b>Form</b>	Liquid.
<b>Color</b>	Black.
<b>Odor</b>	Solvent.
<b>Odor threshold</b>	Not available.
<b>pH</b>	5.8 - 6.2 Mettler Toledo pH Meter
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	>= 149.0 °F (>= 65.0 °C) Closed Cup EPA Method 1020
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	13 - 14 cP Brookfield Viscometer T 22C Spindle #18 (S18) RPM 100
<b>Other information</b>	For other VOC regulatory data/information see Section 15.
<b>VOC</b>	< 893 g/L EPA Method 1020

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**10. Stability and reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Not available.

Hazardous decomposition products Not available.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation Harmful if inhaled.  
Skin contact Harmful in contact with skin.  
Eye contact Causes serious eye damage.  
Ingestion Ingestion is not a likely route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics Not available.

### Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful in contact with skin.

Components	Species	Test Results
Black Pigment		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 10000 mg/kg

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**  
Based on available data, the classification criteria are not met. 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. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA. Carbon black is present only in a bound form in this preparation.

### IARC Monographs. Overall Evaluation of Carcinogenicity

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.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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.

## 12. Ecological information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

Persistence and degradability Not available.

Bioaccumulative potential Not available.

### Partition coefficient n-octanol / water (log Kow)

Cyclohexanone 0.81

Mobility in soil Not available.

Other adverse effects Not available.

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### 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.

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### 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** -  
**Packing group** III  
**Special precautions for user** Not available.

**DOT Supplemental Information** DOT Classification only applies to shipments within the US and Puerto Rico.

**IATA**

**UN number** Not available.  
**UN proper shipping name** Not Regulated  
**Transport hazard class(es)**

**Class** Not available.  
**Subsidiary risk** -  
**Packing group** Not available.  
**Environmental hazards** No  
**Special precautions for user** Not available.

**IMDG**

**UN number** Not available.  
**UN proper shipping name** Not Regulated  
**Transport hazard class(es)**

**Class** Not available.  
**Subsidiary risk** -  
**Packing group** Not available.  
**Transport hazard class(es)**

**Marine pollutant** No  
**EmS** Not available.  
**Special precautions for user** Not available.

**ADR**

**UN number** Not available.  
**UN proper shipping name** Not Regulated  
**Transport hazard class(es)**

**Class** Not available.  
**Subsidiary risk** -  
**Hazard No. (ADR)** Not available.  
**Tunnel restriction code** Not available.  
**Packing group** Not available.  
**Environmental hazards** No  
**Special precautions for user** Not available.

**Further information** Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

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### 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.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
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**SARA 302 Extremely hazardous substance**

Not listed.

<b>SARA 311/312 Hazardous chemical</b>	No
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**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.
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**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Cyclohexanone (CAS 108-94-1)	Low priority
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<b>US state regulations</b>	California Proposition 65 - WARNING: This product can expose you to chemicals including Ethyl Benzene, which is known to the State of California to cause cancer and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .
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<b>Other information</b>	VOC content (less water, less exempt compounds) = < 897 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)
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<b>Regulatory information</b>	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.
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**16. Other information, including date of preparation or last revision**

<b>Issue date</b>	28-Apr-2015
<b>Revision date</b>	13-Dec-2019
<b>Version #</b>	08
<b>Other information</b>	This SDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

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<b>Revision information</b>	3. Composition / Information on Ingredients: Disclosure Overrides HazReg Data: Europe - EU
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## 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