



SAFETY DATA SHEET

SECTION 1. Identification of the hazardous chemical substance or mixture and of the supplier or manufacturer

Important information	*** 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. ***
Name of the hazardous chemical substance or mixture	CN989 Series
Other means of identification	
Common name(s), synonym(s)	HP Scitex TJ100 Flash Black Ink
Recommended use of the hazardous chemical substance or mixture, and restrictions of use	
Recommended use	Inkjet printing.
Recommended restrictions	None known.
Suppliers details	
Company identification	Computing and Printing Mexico S. de R.L. de C.V. Avenida Javier Barros Sierra 495, Piso 11 y 10 Col. Santa Fe, Alc. Álvaro Obregón C.P. 01376, Ciudad de México, México
Telephone	52 (55) 5258-4000
HP Inc. health effects line (Toll-free within the US)	1-800-457-4209
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SECTION 2. Hazard identification

Classification of the substance or mixture

Physical hazards	Flammable liquids	Category 4
Health hazards	Acute toxicity, oral	Category 5
	Acute toxicity, dermal	Category 4
	Acute toxicity, inhalation	Category 4
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	

Elements of labeling, including precautionary statements and warning pictograms



Signal word Danger

Hazard statement

H227	Combustible liquid.
H332	Harmful if inhaled.
H318	Causes serious eye damage.
H312	Harmful in contact with skin.
H303	May be harmful if swallowed.

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.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.

Response

P370 + P378	In case of fire: Use sand, carbon dioxide (CO ₂) or dry chemical to extinguish.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	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.
P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304 + P340	Call a poison center/doctor if you feel unwell.
P312	Take off contaminated clothing and wash it before reuse.
P362 + P364	

Storage

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

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Other hazards which do not result in classification Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

Supplemental information None.

SECTION 3. Composition/information on ingredients

Mixtures

Chemical identity	Common name(s), synonym(s)	CAS number and other unique identifiers	Concentration
2-Butoxyethyl acetate		112-07-2	<70
2-methoxy-1-methylethylacetate		Proprietary	<15
Cyclohexanone		108-94-1	<7.5
Black Pigment		Proprietary	<5

SECTION 4. First-aid measures

Description of necessary 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.

SECTION 5. Fire-fighting measures

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

Specific hazards arising from the chemical Not applicable.

Special protective actions 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.

SECTION 6. Measures that must be taken in the event of accidental spillage or an accidental leak

Personal precautionary measures, protective equipment and emergency procedure

For non-emergency personnel 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.

For emergency responders Not available.

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

Methods and materials for containing and cleaning up spills or releases Not available.

Other issues relating to spills and releases Dispose of in compliance with federal, state, and local regulations.

SECTION 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 storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

SECTION 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Mexico. Occupational Exposure Limit Values

Components	Type	Value
Black Pigment	STEL	7 mg/m ³
	TWA	3.5 mg/m ³
Cyclohexanone (CAS 108-94-1)	STEL	400 mg/m ³
	TWA	100 ppm 200 mg/m ³ 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/m ³	Inhalable fraction.
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
	TWA	20 ppm	

Biological limit values

Mexico. Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Ciclohexanediol, Con hidrólisis	Urine	*
	8 mg/l	Ciclohexanol, Con hidrólisis	Urine	*

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

ACGIH Biological Exposure Indices

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

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

Exposure guidelines

Mexico OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

Control banding approach Not available.

Appropriate engineering controls Not available.

Individual protection measures, such as personal protective equipment (PPE)

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.

SECTION 9. Physical and chemical properties

Appearance

Physical state Not available.

Form Liquid.

Color Black.

Odor Solvent.

Odor threshold Not available.

pH 5.8 - 6.2 Metler Toledo pH Meter

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.

Vapor density 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	13 - 14 cP Brookfield Viscometer T 22C Spindle #18 (S18) RPM 100
Molecular weight	Not available.
Other information	
VOC	< 893 g/L EPA Method 1020

SECTION 10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	None known.
Conditions that must be avoided	Heat, flames and sparks.
Incompatible materials	Not available.
Hazardous decomposition products	Not available.

SECTION 11. Toxicological information

Information about likely routes of entry

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.

Delayed and immediate effects and also chronic effects from short and long term exposure

Numerical measures of toxicity (such as acute toxicity estimates)

Acute toxicity May be harmful if swallowed. Harmful if inhaled. Harmful in contact with skin.

Components	Species	Test Results
Black Pigment		
<u>Acute</u>		
Oral		
LD50	Rat	> 10000 mg/kg
Cyclohexanone (CAS 108-94-1)		
<u>Acute</u>		
Inhalation		
<i>Vapor</i>		
LC50	Rat	> 6.2 mg/l, 4 Hours

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.

ACGIH Carcinogens

Cyclohexanone (CAS 108-94-1)

A3 Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1)

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.
Other information Complete toxicity data are not available for this specific formulation.

SECTION 12. Ecotoxicological information

Toxicity 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.

SECTION 13. Disposal considerations

Disposal methods

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.

Local disposal regulations Not available.

Waste from residues / unused products Not available.

Contaminated packaging Not available.

SECTION 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.

SECTION 15. Regulatory information

Safety, health and environmental regulations specific for the hazard chemical substance or mixture in question

Mexico. Hazard identification guidance list (NOM-018-STPS)

2-Butoxyethyl acetate (CAS 112-07-2)	Listed.
Black Pigment (CAS Proprietary)	Listed.
Cyclohexanone (CAS 108-94-1)	Listed.

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

Not listed.

International regulations 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.

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

SECTION 16. Other included information relevant to the preparation and updating of safety data sheets

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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