



# SAFETY DATA SHEET

## Section 1: Identification of the chemical product and of the supplier

<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>Identification of the chemical product</b>	51645 Series
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Recommended use</b>	Inkjet printing
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
	HP Inc Chile Comercial Limitada Mariano Sanchez Fontecilla 310, Piso 13 Santiago, Chile 7550296
<b>Telephone:</b>	56-2-333-0978
<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

## Section 2: Hazards identification

### Classification according to GHS

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Not classified.

### Label elements

<b>Hazard symbol</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	Not available.
<b>Precautionary statement</b>	
<b>Prevention</b>	Not available.
<b>Response</b>	Not available.
<b>Storage</b>	Not available.
<b>Disposal</b>	Not available.

### Safety signs according to NCh1411/4



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

Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.

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** 2-pyrrolidone: Specific Concentration Limits, Reproductive toxicity Category 1B, fertility or the unborn child 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11.

### Section 3: Composition/information on ingredients

#### Mixture

##### Hazardous components

Systematic chemical name	Common or generic name	Concentration range	CAS number
2-pyrrolidone		<3	616-45-5

##### Non-hazardous components

Systematic chemical name	Common or generic name	Concentration range	CAS number
Water		75-85	7732-18-5
Hydroxy alkylated lactam		<7.5	Proprietary
Black Pigment		<5	Proprietary
Isopropyl alcohol		<2.5	67-63-0

### Section 4: First-aid measures

<b>Inhalation</b>	Move to fresh air. If symptoms persist, get medical attention.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
<b>Eye contact</b>	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.
<b>Ingestion</b>	If ingestion of a large amount does occur, seek medical attention.
<b>Expected acute effects</b>	Not available.
<b>Expected delayed effects</b>	Not available.
<b>Most important symptoms/effects</b>	Contact with skin and eyes may result in irritation.
<b>Special notes for treating physician</b>	Not available.

### Section 5: Fire-fighting measures

<b>Extinguishing media</b>	CO2, water, dry chemical, or foam
<b>Inappropriate extinguishing media</b>	None known.
<b>Products formed during combustion and thermal degradation</b>	Refer to section 10.
<b>Specific associated hazards</b>	Not applicable.
<b>Specific extinguishing methods</b>	None established.
<b>Precautions for emergency personnel and/or firefighters</b>	Not available.

### Section 6: Accidental release measures

<b>Personal precautions</b>	Wear appropriate personal protective equipment.
<b>Protective equipment</b>	Not available.
<b>Emergency procedures</b>	Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**Methods and material for containment, confinement, and/or abatement** Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Slowly vacuum or sweep the material into a bag or other sealed container.  
 Dispose of in compliance with federal, state, and local regulations.

**Methods and materials for clean-up**

**Recovery** Not available.  
**Neutralization** Not available.  
**Final disposal** Do not allow this material to drain into sewers/water supplies.  
 Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit <http://www.hp.com/recycle>.

**Additional measures for preventing disasters** Not available.

**Section 7: Handling and storage**

**Handling**

**Precautions for safe handling** Avoid contact with skin, eyes and clothing.  
**Operational and technical measures** Not available.  
**Other precautions** Not available.  
**Prevention of contact** Handle in accordance with good industrial hygiene and safety practice.

**Storage**

**Conditions for safe storage** Not available.  
**Technical measures** Keep out of the reach of children.  
 Keep away from excessive heat or cold.  
**Incompatible substances and mixtures** Not available.  
**Materials for containers and/or packaging** Not available.

**Section 8: Exposure controls/personal protection**

**Maximum permissible concentration**

**Chile. OELs. Decree No. 594, arts. 61 & 66: Regulating Basic Health and Environmental Conditions in the Workplace and Setting Permissible Levels of Exposure to Chemical and Physical Agents**

Components	Type	Value
Black Pigment	LPP	3.1 mg/m3
Isopropyl alcohol (CAS 67-63-0)	LPP	858 mg/m3
		350 ppm
	LPT	1230 mg/m3
		500 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Black Pigment	TWA	3 mg/m3	Inhalable fraction.
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

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

**Exposure guidelines** Exposure limits have not been established for this product.

**Individual protection measures, such as personal protective equipment**

**Respiratory protection** Not available.  
**Hand protection** Recommended gloves: Nitrile 4 mil minimum thickness.  
**Eye protection** Not available.  
**Skin and body protection** Use personal protective equipment to minimize exposure to skin and eye.  
**Engineering measures** Use in a well ventilated area.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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**Section 9: Physical and chemical properties**

**Appearance**

**Physical state** Liquid.  
**Form** Not available.  
**Color** Black.

**Odor** Not available.

**pH** 7.8 - 8.4

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

**Initial boiling point and boiling range** 200 °F (93.33 °C)

**Flash point** 131.0 - 136.0 °F (55.0 - 57.8 °C) Pensky-Martens Closed Cup

**Explosivity limits** Not available.

**Vapor pressure** Not determined

**Density** 1.04 g/cm<sup>3</sup>

**Solubility(ies)**

**Solubility (water)** Soluble in water

**Partition coefficient (n-octanol/water)** Not determined

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Odor threshold** Not available.

**Evaporation rate** Not determined

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

**Viscosity** > 2 cp

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**Section 10: Stability and reactivity**

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** Will not occur.

**Conditions to avoid** Not available.

**Incompatible materials** Incompatible with strong bases and oxidizing agents.

**Hazardous decomposition products** Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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**Section 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity** Based on available data, the classification criteria are not met.

Components	Species	Test Results
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2-pyrrolidone (CAS 616-45-5)

**Acute**

**Oral**

LD50

Rat

> 5000 mg/kg

Components	Species	Test Results
Black Pigment		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 10000 mg/kg
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.	
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met. Not classified as an irritant according to, OECD 405.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.	
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	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. Carbon black is present only in a bound form in this preparation.	
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.	
	2-pyrrolidone: This component showed developmental effects only at high doses that were toxic to pregnant test animals (OECD Testing Guideline 414: Prenatal Developmental Toxicity Study). Uptake by people of small doses is not expected to cause developmental toxicity. This component has not caused adverse effects on sexual function or damage to fertility in an animal study (OECD Testing Guideline 443: Extended One-Generation Reproductive Toxicity Study).	
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.	
<b>Related symptoms</b>	Not available.	

## Section 12: Ecological information

<b>Aquatic toxicity</b>	Not expected to be harmful to aquatic organisms.		
<b>Ecotoxicity</b>			
<b>Product</b>	<b>Species</b>	<b>Test Results</b>	
51645 Series			
<b>Aquatic</b>			
<i>Acute</i>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	> 750 mg/l, 96 hours
<b>Components</b>	<b>Species</b>	<b>Test Results</b>	
2-pyrrolidone (CAS 616-45-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	13.21 mg/l, 48 hours
Isopropyl alcohol (CAS 67-63-0)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Algae	> 1000 mg/l, 72 hours
Crustacea	EC50	Daphnia	13299 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	9460 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product.		
<b>Bioaccumulative potential</b>	Not available.		
<b>Mobility in soil</b>	Not available.		

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## Section 13: Disposal considerations

<b>Remains/residues</b>	Not available.
<b>Contaminated container, packaging and contaminated materials</b>	No special precautions.
<b>Disposal instructions</b>	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.  HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a> .

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## Section 14: Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>ADR</b>	Not regulated as dangerous goods.
<b>Further information</b>	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.  No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous Goods Regulations Section 3.3.1.3. No ignition, sustained combustion or flashing detected using the sustained combustibility test (method in US CFR173, Appendix H).

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## Section 15: Regulatory information

<b>National regulations</b>	<b>Controlled chemical substances susceptible to manufacturing of narcotics and psychotropic drugs, Lists I, II, III (Decree 1358, published April 17, 2007)</b> Isopropyl alcohol (CAS 67-63-0) <b>Prohibited Substances (Reg. 594/1999, art. 65, as of Nov. 8, 2012)</b> Not listed.
<b>International regulations</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.
<b>Stockholm Convention</b>	Not applicable.
<b>Rotterdam Convention</b>	Not applicable.
<b>Montreal Protocol</b>	Not applicable.
<b>Kyoto protocol</b>	Not applicable.
<b>Basel Convention</b>	Not applicable.

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## Section 16: Other information

<b>Revision information</b>	1. Product and Company Identification: Product and Company Identification Section 2: Hazards identification: Supplemental information Section 11: Toxicological information: Reproductivity
<b>References</b>	Not available.

## 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.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

## 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