



PN K4671, P4210

# Laser MFP 1600n Toner Cartridge

Material Safety Data Sheets are not required for print cartridges. For customer convenience, Dell provides product information in this familiar format.

## Section 1 - Product and Company Identification

**Product Name:** Laser MFP 1600/1600n Toner Cartridge    **Manufacturer:** : Dell Inc. One Dell Way  
**Product ID:** K4671, P4210    Round Rock, TX 78682  
**Chemical:** Toner Cartridge  
**Family:**  
**Application:** Dell Laser MFP 1600/1600n    **Information:**1-800-W W W-DELL  
**Prepared By:** Product Environmental Programs    **Emergency::** 1-800-833-6616

## Section 2 - Composition / Information on Ingredients

<b>SUBSTANCE/MIXTURE :</b>	Mixture
<b>CHEMICAL NAME:</b> <b>(GENERIC NAME)</b>	Black Toner
<b>Ingredients</b>	<b>Percent (wt.)</b> <b>CAS Number</b>
<b>Polyester Resin:</b>	80-90    Confidential
<b>Paraffin wax and other waxes:</b>	1-5    Confidential
<b>Carbon black:</b>	3-5    1333-86-4
<b>Others:</b>	1-5    Confidential
<b>CAS RN</b>	Confidential (except for carbon black )
<b>UN No:</b>	Not Applicable
<b>EINECS:</b>	No (ELINCS)
<b>TSCA</b>	All of ingredients are registered

## Section 3 - Hazards Identification

**FIRE AND EXPLOSION HAZARD:** May cause risk of dust explosion

**POTENTIAL HEALTH EFFECTS:** To best of our investigation. No special hazards have to be

**ENVIRONMENTAL EFFECTS:** To the best of our investigation. No special hazards have to be.

**PHYSICAL AND CHEMICAL HAZARDS:** May cause risk of dust explosion.

## Section 4 - First Aid Measures

**IN CASE OF EYE CONTACT:** Immediately hold eyelids open and flush with stream water at least 15 minutes. If necessary seek, medical attention.

**IN CASE OF SKIN CONTACT:** Wash material off the skin with plenty of water and soap. If necessary seek medical attention.

**IN CASE OF INHALATION:** Remove person to fresh air. If necessary seek medical attention.

**IN CASE OF INGESTION:** Seek medical attention. Never give anything by mouth to an unconscious person. If possible, rinse out mouth and give one or two glasses of water or milk to drink.

## Section 5 - Fire Fighting Measures

**EXTINGUISHING MEASURES:** Risk of producing harmful gasses as carbon monoxide and nitrogen oxides. Avoid inhalation of smoke or gases.

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**EXTINGUISHING AGENTS:** In case of small fire, use powder, carbon dioxide. In case of large fire, shut off air by spraying with water or foam.

**NOT SUITABLE EXTINGUISHING MEDIA:** No information available.

**SPECIAL METHODS\*** Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.

**PROTECTION OF FIREFIGHTERS:** Use goggles in a combination with dust mask, and other protections as appropriate to situation.

**Section 6 - Accidental Release Measures**

**IN CASE OF SPILL/ METHODS OF CLEANING UP:** Prevent dispersion of dust. Sweep or vacuum material immediately by dust-explosion-proof type cleaner. Then wipe remainder in waste cloth.

**PERSONAL PRECAUTIONS:** Use mask, goggles and protective gloves. Large spill: Remove person to safety. Ensure adequate ventilation. Treat from upwind position.

**ENVIRONMENTAL PRECAUTIONS:** Do not discharge into the drains, surface waters or ground water directly.

**PREVENTION OF SECONDARY HAZARDS** No information available

**Section 7 - Handling and Storage**

**HANDLING:** Fight fire from upwind position. Avoid inhalation of dust. Prevent generation of dust. Avoid inhalation of fine dust.

**TECHNICAL MEASURES:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**SAFE HANDLING ADVICE:** Handle in well-ventilated areas. Use safety glasses and protective gloves as appropriate to situation. Wash hands and face and gargle after handling. Prevent generation of dust. This material may cause risk of dust explosion.

**STORAGE:** Keep container tightly closed. Protect from sun. Store in a well-ventilated cool room(Under 40 °C)

**PACKING MATERIALS:** No information available.

**Section 8 - Exposure Controls / Personal Protection**

**ENGINEERING MEASURES:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation. Use local exhaust ventilation, in case of generation of dust.

**ACGIH(TLV):** TWA 3.5mg/m3 (2003 year edition) : Carbon black  
TWA 2mg/m3(fume) (2003 year edition) : Paraffin wax fume  
10mg/m3 TWA (inhalable particles, recommended);  
3mg/m3 TWA (respirable particles, recommended) ; Particles (insoluble or poorly soluble) not otherwise specified (PNOS)

**OSHA(PEL)** 3.5mg/m3 TWA(2002 year edition) : Carbon black  
15mg/m3 TWA (total dust)  
5mg/m3 TWA (respirable fraction) (Particulates not otherwise regulated)

**PROTECTIVE MEASURES**

**RESPIRATORY PROTECTIVE EQUIPMENTS:** Dust respirator, dust mask, as appropriate to situation

**EYE PROTECTION:** Safety glasses with side shield (Safety goggles or face shield)

**HAND PROTECTION:** Rubber gloves

**PROTECTIVE CLOTHINGS:** Full body suit in an appropriate situation.

**HYGIENE MEASURES:** No Information available

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## **Section 9 - Physical and Chemical Properties**

<b>APPEARANCE:</b>	Black powder
<b>ODOR:</b>	Odorless
<b>BOILING POINT</b>	No data available
<b>VAPOR PRESSURE</b>	No data available
<b>VAPOR DENSITY</b>	No data available
<b>VOLATILITY:</b>	No data available
<b>MELTING/FREEZING POINT</b>	No data available
<b>DENSITY</b>	1.2g/mL (20 °C, 68 F)
<b>SOLUBILITY</b>	
<b>WATER SOLUBILITY</b>	Insoluble
<b>SOLVENT SOLUBILITY</b>	Part of component is soluble in toluene, chloroform and tetra hydrofuran
<b>pH:</b>	No data available
<b>VISCOSITY:</b>	No data available
<b>OCTANOL/WATER PARTITION COEFFICIENT:</b>	No data available
<b>OTHER INFORMATION:</b>	No data available

## **Section 10 - Stability and Reactivity**

<b>STABILITY</b>	Stable in general
<b>FLASH PONT:</b>	Not applicable
<b>AUTOIGNITION TEMPERATURE:</b>	No data available
<b>EXPLOSIVE LIMIT IN AIR(LEC):</b>	No data available
<b>EXPLOSIVE LIMIT IN AIR(UEC):</b>	No data available
<b>COMBUSTIVITY:</b>	YES
<b>OXIDIZABILITY:</b>	No
<b>SELF-REACTIVITY/EXPLOSIVITY</b>	This material may cause risk of dust explosion.
<b>REACTIVITY AND STABILITY</b>	Stable in general
<b>HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:</b>	No data available
<b>OTER INFORMATION:</b>	None

## **Section 11 - Toxicological Information**

<b>CORROSIVITY</b>	No data available
<b>SKIN IRRITATION:</b>	No data available
<b>EYE DAMAGE/IRRITATION:</b>	No data available
<b>On PRODUCT</b>	No data available
<b>On INGREDIENTS</b>	Paraffin Waxes and Hydrocarbon Waxes : Category 2B : Ref(1)
<b>SKIN SENSITIZATION:</b>	No data available
<b>ACUTE TOXITY:</b>	Rat LD50:>5,000mg/kg
<b>SUBCHRONIC EFFECTS:</b>	No data available
<b>CHRONIC EFFECTS:</b>	No data available
<b>CARCINOGENICITY:</b>	No data available
<b>INFORMATION OF PRODUCT</b>	No data available
<b>INFORMATION OF INGREDIENTS</b>	Carbon black:Category 2 ; Ref.(1)
<b>IARC:</b>	Group 2B (Possibly carcinogenic to humans) : Carbon black Group 3 (Not classifiable as to its carcinogenicity to humans) : Polymethyl methacrylate
<b>NTP:</b>	None of this product's components are listed.
<b>OSHA:</b>	None of this product's components are listed.
<b>EU</b>	None of this product's components are listed.
<b>MUTAGENICITY (GERM CELL MUTAGENICITY):</b>	Ames Test(TA98,TA100, TA1535,TA1537,TA1538,WP2uvrA):Negative

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**REPRODUCTIVE EFFECTS:** No data available  
**TERATOGENICITY:** No data available  
**OTHER INFORMATION:** Specific Target Organ Systemic Toxicity (Repeated Exposure)  
(Information on Ingredients) : Carbon Black Category 1 (Lung) ; Ref.(1)

### **Section 12 - Ecological Information**

**BIODEGRADABILITY:** No data available  
**BIOACCUMULATION:** No data available  
**FISH TOXICITY:** No data available  
**OTHER INFORMATION:** No data available

### **Section 13 - Disposal Considerations**

Review Handling and Storage(Section 7).  
Dispose of waste in accordance with local, state, and federal regulations.  
Passed to a licensed waste contractor.  
Incinerate with little portions.  
Risk of producing harmful gasses such as carbon monoxide and nitrogen oxides.  
This product may cause risk of dust explosion.

### **Section 14 - Transport Information**

**Follow all regulations in your country or region**

**PRECAUTIONS:** Review Accidental Release Measures (section 6).  
Review Handling and Storage (section 7).  
Handle container carefully to avoid shock.  
Ensure containers without breakage or leakage.  
Ensure containers tightly fixed.  
Do not fall or crash.  
Keep dry.  
Avoid heating (keep under 40C).

**PROPER SHIPPING NAME:** Non hazardous  
**HAZARD CLASS:** Not applicable  
**UN Class/UN Number:** Not applicable  
**PACKING GROUP:** Not applicable  
**HAZARD LABELS:** Not applicable

### **Section 15 - Regulatory Information**

**Follow all regulations in your country or region**

<b>Inventories:</b>	EINECS(EU)	No(ELINCS)
	TSCA(USA)	Yes
	AICS(Australia)	Yes
	DSL(Canada)	No (NDSL)
	ECL(Korea)	Yes
	ENCS(Japan)	Yes
	PICCS(Philippines)	Yes
	IECSC(China)	Yes

### **Section 16 - Other Information**

**Reference :**

-Safety data sheet for chemical products-Part1: Content and order of sections(ISO 11014-1)  
-International Chemical Safety Cards(ICSC)(Compiler's Guide)(1994)  
Ref.(1)(Section 11); GHS Classification Databases, National Institute of Technology and Evaluation (NITE)

**Additional Information:** None

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability(including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacture cannot and does not guarantee that the hazards described herein are the only ones that exist.

Review "HANDLING AND STORAGE(Section7)"

Dispose of waste in accordance with local, state and federal regulations.

Passed to a licensed waste contractor.

**\*\*\*END OF MSDS\*\*\***