



# Material Safety Data Sheet

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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Manufacturer Dell Computer Corporation  
One Dell Way  
Round Rock, TX 78682

Information 1-800-W W W-DELL

Emergency 1-800-551-8553

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Product Name:

Dell 7130cdn Professional Color Printer High Capacity Yellow Toner Cartridge  
FRPPK

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## 2. COMPOSITION, INFORMATION ON INGREDIENTS

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Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Polymer resin	60-70	Proprietary
Ferrite	15-20	66402-68-4
Wax	1-5	8002-74-2
Yellow pigment	1-5	Proprietary

UN Hazard Class : None

UN Number : None

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## 3. HAZARDOUS IDENTIFICATION

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Physical and Chemical Hazard: There are no significant hazards associated with this product.  
Adverse Human Health Effects: There are no significant hazards associated with this product.  
Environmental Effects: There are no significant hazards associated with this product.

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## 4. FIRST-AID MEASURES

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Eye contact : Flush with a large amount of water for at least 15 minutes. Seek medical advice.  
Skin contact : Wash with soap and water.  
Inhalation : Remove from exposure and provide fresh air. Rinse mouth with water.  
Ingestion : Rinse mouth with water. Give several glasses of water to drink and seek medical advice.

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## 5. FIRE-FIGHTING MEASURES

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Specifid method : In case of fire use extinguishing media.  
When in a machine, treat as an electrical fire.

Extinguishing media : Water spray, Foam, Dry chemicals, CO<sub>2</sub>

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## 6.ACCIDENTAL RELEASE MEASURES

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Shut off ignition sources. For small spills, sweep up or soak up with damp cloth.  
For large spills, wear proper protective equipment and place waste material in closed container.  
Dispose of in accordance with federal, state and local regulations.

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## 7.HANDLING AND STRAGE

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Handling : Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.  
Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

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## 8. EXPOSURE CONTROL /PERSONAL PROTECTION

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Control Parameter  
ACGIH TLV : 10 mg/m<sup>3</sup> (inhalable particles)  
3 mg/m<sup>3</sup> (respirable particles)

Precautionary Measured : None required when used as intended in Dell equipment.  
For use other than normal customer operating procedures(such as in bulk toner processing facilities), local exhaust ventilation may be required.

Personal Protective Equipment: None required when used as intended in Dell equipment.  
For use other than normal customer operating procedures(such as in bulk toner processing facilities), protective glove, goggles and respirators may be required.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance/Odor:	Black, magenta, cyan, yellow powder / Faint Odor		
Boiling Point(OC):	Not applicable	Vaper Pressure:	Not applicable
Volatile (%):	Not applicable	Softening Point:	Not applicable
Specific Gravity(H <sub>2</sub> O=1):	Not applicable	Initial Boiling Point:	Not applicable
Solubility in water:	Negligible	Other Data:	None

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## 10.STABILITY AND REACTIVITY

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Flash Point(OC) :Not applicable      Auto-Ignition Temperature:Not applicable

Explosion Limit :Not applicable

Flammability :Not flammable under conditions of use

Spontaneous Combustibility / Reactivity with water :None

Self-reactivity / Explosive :None

Dust Explosive : Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.

Stability and Reactivity :Stable

Other Data :None

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## 11. TOXICOLOGICAL INFORMATION

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Skin Corrosive	: None		
Skin Irritant (rabbit)	: Not an irritant <sup>1)</sup>	Eye Irritant (rabbit):	Not an irritant <sup>1)</sup>
Human Patch	: Not available <sup>1)</sup>		
Sensitization	: Skin (guinea-pig)	: Not a sensitizer <sup>1)</sup>	
Acute Toxicity	Swallowed→LD50 (rat)	: > 5000 mg/kg <sup>1)</sup>	(practically non-toxic)
	Skin→LD50 (rabbit)	: > 5000mg/ kg <sup>1)</sup>	(practically non-toxic)
	Inhaled→LC50 (rat)	: > 4.1mg/L/4hr <sup>1)</sup>	(practically non-toxic)

Chronic Toxicity : The results obtained from a supplier sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m<sup>3</sup>) exposure level (i.e. the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of the animals at the middle (4mg/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) exposure level. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with EPA testing protocol. The test toner was ten times more respirable than commercially available supplier toner, and would not be functionally suitable for Dell equipment.<sup>1)</sup>

Carcinogenicity : Carbon Black is classified as "Group 2B(possibly carcinogenic to humans)" by IARC. But we obtained the results from a Chronic Toner Inhalation Study, that commercially available supplier toner has no evidence of human carcinogens. All other ingredients are **not** classified as "Carcinogens<sup>ref.1)</sup>".

Mutagenicity: Ames Assay: Negative

Reproduction and Development: Not classified as toxic to reproductive system<sup>ref.2)</sup>.

1) This information is based on toxicity data for similar materials and ingredients.

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## 12. ECOLOGICAL INFORMATION

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Biodegradability	: Not available.		
Bioaccumulation	: Not available.		
Acute Toxicity	96hours LC 50	: > 500mg/L <sup>1)</sup>	(practically non-toxic)
	48hourd EC50(daphnia magna)	: > 100mg/L <sup>1)</sup>	(practically non-toxic)
Other Information	: None		

1) This information is based on toxicity data for similar materials and ingredients.

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## 13.DISPOSAL CONSIDERATION

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

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## 14.TRANSPORT INFORMATION

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Transport in accordance with federal , state, and local regulations.

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## 15.REGULATORY INFORMATION

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Ensure this product in compliance with federal requirements and ensure conformity to local regulations.

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## 16.OTHER INFORMATION

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The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.

### References

- ◆ IARC Monographs on the Evaluation Carcinogenic Risks to Humans (WHO.International Agency for Research on Cancer)
  - ◆ National Toxicology Program(NTP) Report on Carcinogens (NTP)
  - ◆ TLVs and BEIs (American Conference of Governmental Industrial Hygienists)
  - ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provision s relating to the classification, packing and labelling of dangerous substaces; Annex 1 (EU)
  - ◆ Journal of Occupational Health(Japan Society for Occupational Heathh)
- ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provision s relating to the classification, packing and labelling of dangerous substaces; Annex 1 (EU)