

Material Safety Data Sheet

1/3

1. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Dell Computer Corporation

One Dell Way

Round Rock, TX 78682

<u>Information</u> 1-800-W W W-DELL

<u>Emergency</u> 1-800-551-8553

Product Name:

Dell 7130cdn Professional Color Printer High Capacity Cyan Toner Cartridge J5YD2

2. COMPOSITION, INFORMATION ON INGREDIENTS

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
Cyan pigment	1-5	Proprietary

UN Hazard Class: None UN Number: None

3. HAZARDOUS IDENTIFICATION

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.

4.FIRST-AID MEASURES

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.

Issue Date: 12/8/09

J5YD2

5. FIRE-FIGHTING MEASURES

Specifid method In case of fire use extinguishing media.

When in a machine, treat as an electrical fire.

Extingishing media Water spray, Foam, Dry chemicals, CO₂

6.ACCIDENTAL RELEASE MEASURES

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.

7.HANDLING AND STRAGE

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

8. EXPOSURE CONTROL /PERSONAL PROTECTION

Control Parameter

ACGIH TLV 10 mg/m³ (inhalable particles)

3 mg/m³ (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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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(H₂O=1): Not applicable Not applicable **Initial Boiling Point:**

Negligible Solubility in water: Other Data: None

10.STABILITY AND REACTIVITY

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

Issue Date: 12/8/09

J5YD2

11. TOXICOLOGICAL INFORMATION

Skin Corrosive : None

Skin Irritant (rabbit) : Not an irritant¹⁾ Eye Irritant (rabbit): Not an irritant¹⁾

Human Patch : Not available¹⁾

Sensitization : Skin (guinea-pig) : Not a sensitizer¹⁾
Acute Toxicity Swallowed→LD50 (rat) : > 5000 mg/kg¹⁾

xicity Swallowed \rightarrow LD50 (rat) : > 5000 mg/kg¹ (practically non-toxic) Skin \rightarrow LD50 (rabbit) : > 5000mg/kg¹ (practically non-toxic)

Inhaled \rightarrow LC50 (rat) : > 4.1 mg/L/4hr¹⁾ (practically non-toxic)

Chronic Toxicity : The results obtained from a supplyer sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m³) 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/m³) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m³) 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 supplyer toner, and would not be functionally suitable for Dell equipment.¹⁾

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 supplyer toner has no evidence of human carcinogens. All other ingredients are **not** classified as "Carcinogens".

Mutagenicity: Ames Assay: Negative

Reproduction and Development: Not classified as toxic to reproductive system^{ref.2}".

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

12. ECOLOGICAL INFORMATION

Biodegradability : Not available. Bioaccumulation : Not available.

Acute Toxicity : 96hours LC 50 :> 500mg/L^{1} (practically non-toxic)

48hourd EC50(daphnia magna) : $> 100 \text{mg/L}^{1)}$ (practically non-toxic)

Other Information : None

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

13.DISPOSAL CONSIDERATION

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

14.TRANSPORT INFORMATION

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

15.REGULATORY INFORMATION

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

16.OTHER INFORMATION

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 Rsearch 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 Heatth)
- 2: 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)

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