



Dell High Capacity Black Cartridge

Section 1 - Product and Company Identification

Laser Printer Family: Dell[™] 2130cn/2135cn Printer

Product Description:

Dell High Capacity Black Cartridge

Information: 1-800-W W W-DELL Manufacturer: Dell Inc.

One Dell Way

Emergency: 1-800-551-8553 Round Rock, TX, USA 78682

Prepared By: Product Environmental Programs

Section 2 - Composition / Information on Ingredients

Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Stylene/acrylate copolymer	70 - 80	
Polyolefin wax	< 10	
Carbon Black	< 10	1333-86-4
Amorphous silica	< 10	7631-86-9
Blue pigment	< 10	147-14-8
Titanium dioxide	< 1	13463-67-7

UN Hazard Class: None UN Number: None

Section 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.

Section 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.

Section 5 - FIRE-FIGHTING MEASURES

Specified 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

Section 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 collect them in closed container. Dispose off in accordance with federal, state and local regulations.

Section 7 - HANDLING AND STORAGE

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.

Section 8 - EXPOSURE CONTROL /PERSONAL PROTECTION

Control Parameter

ACGIH TLV (2012) : 10 mg/m^3 (Total)

3 mg/m³ (Respirable)

Precautionary Mesured : 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.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Black Powder / Faint Odor

Solubility in water: Negligible Other Data: None

Section 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

Section 11 - TOXICOLOGICAL INFORMATION

Skin Corrosive : Not a corrosive
Skin Irritant (rabbit) : Not an irritant
Eye Irritant (rabbit) : Not an irritant 1

Skin Sensitization (guinea-pig) : Not a sensitizer

Acute Toxicity Swallowed LD50 (rat) : > 5000 mg/kg 1 (practically non-toxic)

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Skin LD50 (rabbit) : > 5000 mg/kg 1 (practically non-toxic) Inhaled LC50 (rat) : > 4.1mg/L/4hr 1 (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.

Carcinogenicity : Carbon Black is classified as "Group 2B(possibly carcinogenic to humans)" by The International Agency for Research on Cancer (IARC). But we obtained the results from a Chronic Toner Inhalation Study, that commercially available supplyer toner has no evidence of human carcinogens. Titanium dioxide is classified as Group 2B by IARC. In animal chronic inhalation study, rats only showed the incidence of lung tumors which is attributed to excessive burden on rat lung clearance mechanism (overloading). It is assumed that a designated use of this product should not cause such excessive burden on lung clearance mechanism. Epidemiological studies provide no clear evidence of elevated risks of lung tumors mortality or morbidity among the workers exposed to TiO2 dust.

All other ingredients are not classified as "Carcinogens ref.1".

Mutagenicity: Ames Assay : Negative

Reproduction and Development : Not classified as "Reproductive and Development chemicals ref.2"

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

Section 12 - ECOLOGICAL INFORMATION

Biodegradability : Not available Bioaccumulation : Not available

Acute Toxicity : Fish 96hr LC50 (Oryzias latipes): >500mg/L 1 (practically non-toxic)

Daphnia 48hr EC50 (Daphnia magna): >100mg/L 1 (practically non-toxic)
Algae 72hr EC50 (Selenastrum capricornutum): >100mg/L 1 (practically non-toxic)

Other Information: None

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

Section 13 - DISPOSAL CONSIDERATION

Dispose off in accordance with national and local regulations.

Section 14 - TRANSPORT INFORMATION

Transport in accordance with national and local regulations.

Section 15 - REGULATORY INFORMATION

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

Section 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)



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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 provisions relating to the classification, packing and labelling of dangerous substaces; Annex 1 (EU)