



Dell Standard Capacity Black Cartridge

Section 1 - Product and Company Identification

Laser Printer Family: Dell™ 3110cn/3115cn Printer

Product Description:

Dell Standard Capacity Black Cartridge

Information: 1-800-W W W-DELL

Manufacturer: Dell Inc.
One Dell Way
Round Rock, TX, USA 78682

Emergency: 1-800-551-8553

Prepared By: Product Environmental Programs

Section 2 - Composition / Information on Ingredients

Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Styrene/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.
Extinguishing media : Water spray, Foam, Dry chemicals, CO₂

Section 6 - ACCIDENTAL RELEASE MEASURES



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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 supplier 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 supplier toner, and would not be functionally suitable for Dell equipment.※1

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 supplier 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 of the Carcinogenic Risks to Humans (WHO International Agency for Research 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 administrative provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)
 - ◆ Journal of Occupational Health(Japan Society for Occupational Health)
- 2: ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administrative provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)