

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name: Dell 5310 Extra High Yield Toner Cartridge

Part number: DELL5310

1.2 IDENTIFIED USES AND USES ADVISED AGAINST

For use in: This mixture is a toner used in copiers/printers.

1.3 **SUPPLIER DETAILS**

Supplier: Clover Technologies Group

4200 Columbus Street. Ottawa, IL 61350 United States

Phone number: 815-431-8100

Fax: 815-461-8583

Contact Hours: 08:00AM-05:00PM CST

1.4 **EMERGENCY TELEPHONE NUMBERS**

Supplier: N/A

2. HAZARDS IDENTIFICATION

2.1 INFORMATION and CLASSIFICATION

Overview: Product is a stable, non-flammable powder. If used as intended, the product does not present an acute

or chronic health problem. This health hazard assessment is based on information that is available on the properties of its components. Classification According to Directive 1272/2008/EC: Not classified. Hazard Classes: N/A. Mixture Hazard Phrases: None. High concentrations of dust may form explosive mixture with air. Dust irritates the respiratory system, and may cause coughing and difficulties in

breathing.

2.2 **LABEL ELEMENTS**

Applicable Pictograms:

NO PICTOGRAM

Danger Indications: Classification According to Directive 67/548/EEC and 1999/45/EC: Non dangerous mixture, according to

Directive 1999/45/EC (Dangerous Preparations Directive [DPD]).

Risk Phrases: None
Safety Phrases: N/A

2.3 **OTHER HAZARDS**

PBT or vPvB: Does not contain any PBT or vPvB substances.

Product: Dell 5310 Extra High Yield Revision date: 06/03/2015 Page: 1/9

^{*} This document provides safety-related information about toner contained in print cartridge for use in laser printer





3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
Styrene Acrylate Copolymer	25036-16-2	80-95	Not listed	Not listed	
Carbon Black	1333-86-4	5-10	3.5 mg³	3.5 mg ³	EC NUMBER: 215-609-9, REACH NUMBER: 05-2116645306-46-0000
Polyolefin Wax	25085-53-4	1-5	15 mg/m ³	10 mg/m ³	
Iron Oxide/Ferrite	1317-61-9	1-5	10 mg/m ³	5 mg/m ³	EC NUMBER: 215-277-5, REACH NUMBER: 05-2116669639-23-0000

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

The Data Shown is in accordance with the latest Directives.

This section provides composition information for the toner powder contained in specially designed container inside of the print cartridge.

4. FIRST-AID MEASURES

4.1 FIRST AID MEASURES

4.1.1 FIRST AID INSTRUCTIONS BY RELEVANT ROUTES OF EXPOSURE

Inhalation: Remove to fresh air. If effects occur, consult medical personnel.

Eye contact: Flush eyes immediately with plenty of water for at least 15 minutes.

Skin contact: Flush with plenty of water. Use soap.

Ingestion: No adverse effects anticipated by this route of exposure, incidental to proper handling.

4.1.2 ADDITIONAL FIRST AID INFORMATION

Additional first aid information: N/A Immediate Medical Attention Required: N/A

4.2 **SYMPTOMS AND EFFECTS**

Acute Symptoms from Exposure: N/A
Delayed Symptoms from Exposure: N/A

4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

Move to Fresh Air

Product: Dell 5310 Extra High Yield Revision date: 06/03/2015 Page: 2/9



5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media: Water spray, dry chemical, carbon dioxide or foam type extinguishers.

Extinguishing Media Not to be Used: Full water jet.

5.2 **SPECIAL HAZARD**

Unusual Fire/Explosion Hazards: Toner material, like most organic material in powder form, is capable of creating a

dust explosion.

Extinguishing Media Not to be Used: N/A

5.3 ADVICE FOR FIRE FIGHTERS

Avoid inhalation of smoke. Wear protective cloting an wear self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 PRECAUTIONS FOR NON-EMERGENCY PERSONNEL

Minimize the release of particulates. Do not use a vacuum cleaner unless motor is rated dust tight.

6.1.2 ADDITIONAL FIRST AID INFORMATION

Avoid breathing dust.

6.1.3 PERSONAL PROTECTION

Wear personal protective equipment as described in Section 8.

6.2 **ENVIRONMENTAL PRECAUTIONS**

Regulatory Information: Keep product out of sewers and watercourses.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP

Spill or Leak Cleanup Procedures: After lightly spraying with water to prevent development of dust, spills should be swept up

or wiped up. Then residuals can be removed with soap and water. If it is not possible to scrub the floor with water, cover the floor with suitable sheets of paper. These used sheets should be wrapped up in spills and transferred to a suitable container for disposal. Garments may be washed or dry cleaned, after removal of loose toner. Keep product out of sewers and

watercourses. Dispose of waste toner in accordance with local requirements.

Product: Dell 5310 Extra High Yield Revision date: 06/03/2015 Page: 3/9



7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Recommendations for Handling: No special precautions when used as intended. Keep containers closed, avoid creating dust.

Keep away from ignition sources.

Advice on General Hygiene: Never eat, drink or smoke in work areas. Practice good personal hygiene after using this

material, especially before eating, drinking, smoking, using the restroom, or applying

cosmetics.

7.2 **CONDITIONS FOR SAFE STORAGE**

Avoid high temperatures, >100°F/32°C

7.3 **SPECIFIC END USES**

Printing devices

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **CONTROL PARAMETERS**

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release in order to maintain airborne concentrations of the product below OSHA PELs (See Section 2).

Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

8.2 **EXPOSURE CONTROLS**

Respiratory protection:

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134 and 1910.137) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, levels of airborne contamination, and sufficient levels of oxygen.

Eye/Face Protection:

Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Hand/Skin Protection:

For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. WARNING! Air purifying respirators do not protect worker in oxygen deficient atmospheres.

Additional Protection:

N/A

Protective Clothing and Equipment:

Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear splash-proof chemical goggles and face shield when working with liquid, unless full face piece respiratory protection is worn.

Safety Stations:

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment:

Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment. Never take home contaminated clothing.

Comments:

Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.

Product: Dell 5310 Extra High Yield Revision date: 06/03/2015 Page: 4/9



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 **DETAIL INFORMATION**

Physical state: APPEARANCE: Fine, black powder.

Color: Black

Odor: Almost odorless.

Odor threshold: N/A

Boiling point: N/A

Melting point: > 100 - 150°C (softening point)

Flash point: N/A
Explosion limits: N/A
Relative density: N/A
Auto-ignition temperature: N/A

9.2 OTHER INFORMATION

SPECIFIC GRAVITY: 1.0 - 1.5. WATER SOLUBILITY: Negligible.

10. CHEMICAL STABILITY AND REACTIVITY

10.1 Reactivity:

Reactivity Hazards: None

Data on Mixture Substances: None

10.2 **Chemical Stability:** The product is stable. Under normal conditions of storage and use, hazardous

polymerisation will not occur.

10.3 **Hazardous Polymerization:** Stable under conditions of normal use.

10.4 **Conditions to Avoid:** Keep away from heat, flame, sparks and other ignition sources.

10.5 **Incompatible Materials:** Strong oxidising materials

10.6 Hazardous Decomposition: Will not occur.

Product: Dell 5310 Extra High Yield Revision date: 06/03/2015 Page: 5/9





11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures: Toner contains no known toxicological materials. Product does not contain any 1-nitropyrene,

benzo[a]pyrene, azo dyes or pigments that can release carcinogenic amines.

Acute Toxicity: N/A

Skin Corrosion/Irritation: Tests on toners containing similar materials indicate no evidence of acute dermal toxicity; non-

irritating and non-sensitizing in human patch test.

Serious Eye Damage: Tests on toners containing similar materials indicate non irritating to rabbit eye mucosa.

Inhalation: N/A

Sensitization: Tests on toners containing similar materials indicate no evidence of acute inhalation toxicity.

Mutagenicity: Not known.

Carcinogenicity: Carbon black is reclassified as a group 2B by IARC, but inhalation tests using a typical toner

showed no association between toner and animal tumors.

Reproductive Toxicity: N/A STOT - Single Exposure: N/A STOT - Multiple Exposure: N/A

Ingestion: Tests on toners containing similar materials indicate no evidence of acute oral toxicity.

Hazard Class Information: N/A
Mixture on Market Data: N/A
Symptoms: N/A
Delayed/Immediate Effects: N/A

Delayed/Immediate Effects: N/A
Test Data on Mixture: N/A
Not Meeting Classification: N/A
Routes of Exposure: N/A
Interactive Effects: N/A
Absence of Specific Data: N/A
Mixture vs Substance Data: N/A

12. ECOLOGICAL INFORMATION

12.1 **Eco toxicity:** Based on available data, not harmful to aquatic life.

12.2 **Degradability:** Not readily biodegradable.

12.3 Bioaccumulation Potential: Bioaccumulation is insignificant.

12.4 **Mobility in Soil:** Partially soluble in water.

12.5 PBT & vPvB Assessment: N/A

12.6 **Other Adverse Effects:** Presents little or no hazard to the environment. Product does not contain any 1-nitropyrene,

benzo[a]pyrene, azo dyes or pigments that can release carcinogenic amines.

Page: 6/9

Product: Dell 5310 Extra High Yield Revision date: 06/03/2015



13. DISPOSAL CONSIDERATIONS

Disposal Information:

Dispose as a solid waste in accordance with local authority regulations.

Empty container retains product residue.

Physical/Chemical Properties that affect Treatment:

Symbol: This product is not classified as dangerous

Risk Phrases: This product is not classified according to the federal, state and local environmental regulations.

Waste Treatment Information:

Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

Personal Protection Required:

N/A

14. TRANSPORT INFORMATION

14.1 **ID Number:** None allocated

14.2 Shipping Name: N/A

14.3 **Hazard Class:** Marine [IMDG]: Not classified as "DANGEROUS GOODS"

14.4 Packing Group: N/A

14.5 Environmental Hazards: N/A

14.6 User Precautions: N/A

14.7 Bulk Transport: N/A

15. REGULATORY INFORMATION

15.1 **Regulatory Information:** EU 3093/94: Not regulated

EPA Regulatory Information: None at this Time

CERCLA Reportable Quantity: None

15.2 Superfund Information:

Hazard Categories:

Immediate: None

Delayed: None

Fire: NFPA Rating: Health = 1 Fire = 1 Reactivity = 0

Pressure: None **Reactivity:** None

Section 302 - Extremely Hazardous: Not listed

Section 311 - Hazardous: Not listed

15.3 **State Regulations:** Check each state's regulations that may specifically refer to this product.

15.4 Other Regulatory Information: EEC 2455/92: Not regulated

Product: Dell 5310 Extra High Yield Revision date: 06/03/2015 Page: 7/9



16. OTHER INFORMATION

General Comments:

This information is based on our current knowledge. It should not therefore be construed as guaranteeing specific properties of the products as described or their suitability for a particular

application

Creation Date of this SDS: 06/11/2015

Product: Dell 5310 Extra High Yield

Toner Cartridge

Revision date: 06/03/2015 Page: 8/9



Key to Abbreviations and Acronyms used in this sheet:

ACGIH = American Conference of Governmental Industrial	NIOSH = National Institute for Occupational Safety and Health		
Hygienists			
CERCLA = Comprehensive Environmental Response Compensatio	nOSHA = Occupational Health and Safety Administration		
and Liability Act			
CLP = Classification, Labeling, and Packaging	PEL = Permissible Exposure Limit		
DSD = Dangerous Substances Directive	SCBA = Self Contained Breathing Apparatus		
EPA = Environmental Protection Agency	STOT = Specific Target Organ Toxicity		
GHS = Globally Harmonized System	TLV = Threshold Limit Value		
N/A = Not Applicable	UK = United Kingdom		
NFPA = National Fire Protection Association	UN = United Nations		

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Product: Dell 5310 Extra High Yield Revision date: 06/03/2015