#### MATERIAL SAFETY DATA SHEET

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD

29CRF 1910.1200

# **CLOVER TECHNOLOGIES** 4200 COLUMBUS STREET

OTTAWA, ILLINOIS 61350



NFPA/HMIS

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REACTIVITY

PPE (Sec.8)

EMERGENCY TELEPHONE NUMBER 1-800-356-2728 INFORMATION TELEPHONE NUMBER 1-919-774-3808 DATE PREPARED: 2/1/07 SIGNATURE OF PREPARER (OPTIONAL)

### SECTION 1 CHEMICAL PRODUCT / NAME

Product/Chemical Name: Dell 310 - 5417 (Dell 1600) Toner

CAS Number: Mixture Other Designations: N/A General Use: Laser Printer

# SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

CAS ΕU OSHA **ACGIH** OTHER % NUMBER NUMBER LIMITS Ingredient Name: PEL TLV

Toner is regulated under OSHA as particulate not

otherwise regulated:

Polyester 25038-59-9 88 - 92 Carbon Black 1333-86-4 3 - 6 Polypropylene 9010-79-1 2 - 4 Additive 31714-55-3

### NDA = NO DATA AVAILABLE N/A = NOT APPLICABLE

## **SECTION 3 HAZARDOUS IDENTIFICATION**

Primary Entry Routes: Inhalation

Target Organs: N/A Acute Effects: N/A

Inhalation: Slight irritation of respiratory tract Eye: Slight irritation of respiratory tract

Skin: Slight irritation.

Ingestion: Oral toxicity is believe to be low.

# Carcinogenicity:

Carbon Black was reclassified as a Group 2B by IRAC in 1996 based on the results of only the inhalation study in rats. However, there was not observed the incidence of tumors on the results on dermal or oral studies. Also 2-years inhalation study using toner containing carbon black showed no association between toner exposure and animal tumors.

Medical Conditions Aggravated By Long-Term Exposure: Accumulation of dust in the respiratory system may cause congestion.

### **Chronic Effects:**

If these materials are used in a manner that could generate airborne particles (dust), it is recommended that the dust be treated as a NUISANCE PARTICULATE according to the American Conference of Government Industrial Hygienists (ACGIH))TLV=10 mg/m3)

### **SECTION 4 FIRST AID MEASURES**

Inhalation: Gargle with water, move to place in fresh air. If unsuccessful, get medical attention. Eye Contact: In case of contact immediately flush with plenty of low pressure water for at least

15 minutes. Remove any contact lenses to ensure thorough flushing.

Skin Contact: Wash well with soap and running water.

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

After first aid, get appropriate in-plant paramedic or community medical support

if serious signs and symptoms persist.

Note to Physicians:

Special Precautions / Procedures: N/A **SECTION 5 FIRE FIGHTING MEASURES** 

Flash Point: N/A
Flash Point Method: N/A
Burning Rate: N/A

Auto Ignition Temperature: > 360C

LEL: N/A UEL: N/A

Flammability Classification: 1 Slight (HMIS, NFPA)

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

Unusual Fire of Explosion Hazards: May form flammable dust-air mixture.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, nitrogen oxide and smoke.

Under certain conditions some aliphatic aldehydes and carboxylic acids

may form.

**Fire-Fighting Instructions:** Do not release runoff from fire controls methods to sewers or waterways. **Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a

self-contained breathing apparatus (SCBA) with full face piece operated

in pressure-demand or positive-pressure mode.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill / Leak Procedures: N/A

Small Spills: Scoop into a container for disposal, suction up remaining material with a high efficiency

vacuum cleaner.

Large Spills: Scoop into a container for disposal, suction up remaining material with a high efficiency

vacuum cleaner.

Containment: For large spills, avoid suspending particles, collect for later disposal. Do not release

into sewers or waterways. No special requirements.

Cleanup: No special requirements.

Regulatory Requirement: N/A

# SECTION 7 HANDLING AND STORAGE

Handling Precautions: Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.

Storage Requirements: Store in a cool, dry location.

Regulatory Requirement: N/A

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** 

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations

below OSHA PELs (sec.2). Local exhaust ventilation is preferred because it prevents contaminant

dispersion into the work area by controlling it at its source.

Administrative Controls:

**Respiratory Protection:** Seek professional advise prior to respirator selection and use.

Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operation (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air-purified respirators do not protect workers in oxygen-deficient

atmospheres.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent

prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29CFR 1910.133). Contact lenses are not eye protective devices. Appropriate protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothing from street clothes. Launder before

re-use. Remove this material from your shoes and clean personal protective

equipment.

Comments: Never eat, drink, or smoke in works areas. Practice good personal hygiene after using this

material, especially before eating, drinking, using the toilet, or applying cosmetics.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Water Solubility: Physical State: Insoluble

Appearance and Odor: Black, free flowing powder, faint odor Other Solubilities: N/A Odor Threshold: N/A **Boiling Point:** N/A

Vapor Pressure: N/A Freezing/Melting Point: 120 C (Melting Point)

Vapor Density (Air=1): Heavier than air. Viscosity: N/A Formula Weight: N/A Refractive Index: N/A Density: N/A **Surface Tension:** N/A Specific Gravity:  $(H_2O)=1$ , at 4°C): 1.1 % Volatile: N/A pH: N/A **Evaporation Rate:** N/A

# SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Polymerization: N/A

**Chemical Incompatibilities:** N/A

Conditions to Avoid:

Hazardous Decomposition Products: May include nitrogen and carbon oxides.

## **SECTION 11 TOXICOLOGICAL INFORMATION**

Eye Effects: N/A Toxicity Data: \*

Skin Effects: N/A **Acute Inhalation Effects:** N/A

> **Acute Oral Effects:** N/A **Chronic Effects:** N/A Carcinogenicity: N/A

Mutagenicity: Ames Negative

Teratogenicity: N/A

\*See NIOSH, RTECS for additional toxicity data.

## **SECTION 12 ECOLOGICAL INFORMATION**

**Ecotoxicity:** 

Environmental Fate: N/A **Environmental Degradation:** N/A Soil Absorption / Mobility: N/A

# SECTION 13 DISPOSAL CONSIDERATIONS

Waste material may be incinerated / or recycled for its Iron Oxide under conditions which meet Disposal:

all federal, state, and local environmental regulations.

Disposal Regulatory Reguirements: N/A Container Cleaning and Disposal: N/A

## SECTION 14 TRANSPORT INFORMATION

DOT Transportation Data (49 CFR 172.101): Not specifically listed.

Shipping Name: N/A **Packaging Authorizations Quantity Limitations** Shipping Symbol: N/A a) Exceptions: N/A a) Passenger, Aircraft, or Hazard Class: b) Non-bulk Packaging: N/A N/A Railcar: N/A

N/A

ID No: N/A

Special Provisions:

c) Bulk Packaging: Packing Group: N/A Label: N/A

N/A

**Vessel Stowage Requirements** 

a) Vessel Stowage: N/A

b) Other: N/A

# SECTION 15 REGULATORY INFORMATION

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification: (40 CFR 261): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) listed unlisted specific per RCRA, sec. 3001;

CWA sec.311 (b)(4);

CWA, Sec. 307(a),CAA,Sec.112

CERCLA Reportable Quantity(RQ), Not listed

SARA 311/312 Codes: N/A

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Air Containment (29 CFR 1910.1000< Table Z-1-A): Particulates not otherwise regulated.

State Regulations: Check your states regulations that may specifically list copy machine toner.

# SECTION 16 OTHER INFORMATION

Prepared By: N/A

Revision Notes: N/A

Additional Hazard Rating System: N/A

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