

**MATERIAL SAFETY DATA SHEET**  
 MAY BE USED TO COMPLY WITH OSHA'S  
 HAZARD COMMUNICATION STANDARD  
 29CFR 1910.1200

**CLOVER TECHNOLOGIES**  
 4200 COLUMBUS STREET  
 OTTAWA, ILLINOIS 61350



EMERGENCY TELEPHONE NUMBER 1-800-633-2266  
 MANUFACTURER'S FAX NUMBER 1-304-232-0996

DATE PREPARED: 11/1/13 SIGNATURE OF PREPARER (OPTIONAL)

**SECTION 1 CHEMICAL PRODUCT / NAME**

**Product/Chemical Name:** CC364X MICR Toner  
**Product No:** ELI75638  
**CAS Number:** Mixture  
**Other Designations:** N/A  
**General Use:** Laser Printer

**SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient Name:	CAS NUMBER	EU NUMBER	%	REACH Registration #	OSHA PEL	ACGIH TLV	OTHER LIMITS
Toner is regulated under OSHA as particulate not otherwise regulated:							
Polyester Polyurethane Resin	174125-31-6		N/A				10 mg/m <sup>3</sup> Total dust
Iron Oxide	1317-67-9		N/A				Not Established
Ethylene Propylene Wax	9010-79-1		N/A				10 mg/m <sup>3</sup> Total dust

NDA = NO DATA AVAILABLE  
 N/A = NOT APPLICABLE

**SECTION 3 HAZARDOUS IDENTIFICATION**

**Primary Entry Routes:** Inhalation of dust, skin contact.  
**Target Organs:** N/A  
**Acute Effects:** N/A  
**Inhalation:** Slight irritation of respiratory tract.  
**Eye:** Dust may cause irritation by mechanical abrasion.  
**Skin:** Slight irritation.  
**Ingestion:** None known.  
**Carcinogenicity:** N/A

**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 may be treated as a NUISANCE PARTICULATE according to the American Conference of Government Industrial Hygienists (ACGIH)(TLV=10mg/m<sup>3</sup>).

NFPA/HMIS	
HEALTH	1
FLAMMABIL	1
REACTIVITY	0
PPE (Sec.8)	-

**SECTION 4 FIRST AID MEASURES**

**Inhalation:** Remove to fresh air. Gargle with water. Treat any irritation symptomatically. Call a physician if condition persists.

**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:** Dilute stomach contents with several glasses of water.  
*After first aid, get appropriate in-plant paramedic or community medical support if serious signs and symptoms persist.*

**Note to Physicians:** N/A

**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:** Not Determined

**LEL:** N/A

**UEL:** N/A

**Flammability Classification:** 1 Slight (HMIS, NFPA)

**Extinguishing Media:** Water fog, dry chemical, foam, or carbon dioxide.

**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 facepiece 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.

**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. Avoid excessive exposure to heat.

**Fire & Explosion Prevention** Do not store next to strong Oxidizer. Eye protection and respirators maybe required for bulk handling.

**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:** None required when product is used as intended.

**Protective Clothing/Equipment:** None required when product is used as intended.

**Eye Protection:** None required when product is used as intended.

**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**

<b>Physical State:</b>		<b>Water Solubility:</b>	Insoluble
<b>Appearance and Odor:</b>	Black powder, Slight odor	<b>Other Solubilities:</b>	N/A
<b>Odor Threshold:</b>	N/A	<b>Boiling Point:</b>	N/A
<b>Vapor Pressure:</b>	N/A	<b>Melting Point:</b>	>110 deg C
<b>Vapor Density (Air=1):</b>	N/A	<b>Viscosity:</b>	N/A
<b>Formula Weight:</b>	N/A	<b>Refractive Index:</b>	N/A
<b>Density:</b>	N/A	<b>Surface Tension:</b>	N/A
<b>Specific Gravity:</b>	(H <sub>2</sub> O)=1, at 4°C): N/A	<b>% Volatile:</b>	N/A
<b>pH:</b>	N/A	<b>Evaporation Rate:</b>	N/A
<b>Flash Point:</b>	N/A		

**SECTION 10 STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable
<b>Polymerization:</b>	N/A
<b>Chemical Incompatibilities:</b>	N/A
<b>Conditions to Avoid:</b>	None
<b>Hazardous Decomposition Products:</b>	None
<b>Hazardous Polymerization:</b>	This product will not polymerize

**SECTION 11 TOXICOLOGICAL INFORMATION**

<b>Irritation:</b>				
<b>Eye Effects:</b>	<b>Eye Effects:</b>	Not classified as irritant, according to Directive 67/548/EEC. (data from similar toner)		
	<b>Skin Effects:</b>	Not classified as irritant, according to Directive 67/548/EEC. (data from similar toner)		
<b>Reproductive toxicity:</b>	No data			
<b>Skin sensitization:</b>	Not classified as a skin sensitizer, according to Directive 2001/59/EC.			
<b>Inhalation Toxicity:</b>	LC <sub>50</sub> ; in-rat>5.19mg/l/4hrs, not harmful. (data from similar toner)			
<b>Oral Toxicity:</b>	LD <sub>50</sub> >2500mg/kg body weight, not harmful. (data from similar toner)			
<b>Aspiration hazard:</b>	No data			
<b>Carcinogenicity:</b>	NTP→ No	IARC→ No	OSHA→ No	TRGS 905→ No
<b>Mutagenicity:</b>	Ames (Estimated from the results of Negat testing the constituent components)			

\*See NIOSH, RTECS for additional toxicity data.

**SECTION 12 ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	N/A
<b>Environmental Fate:</b>	N/A
<b>Environmental Degradation:</b>	N/A
<b>Soil Absorption / Mobility:</b>	N/A

**SECTION 13 DISPOSAL CONSIDERATIONS**

<b>Disposal:</b>	Waste material may be incinerated / or recycled for its Iron Oxide under conditions which meet all federal, state, and local environmental regulations.
<b>Disposal Regulatory Requirements:</b>	N/A
<b>Container Cleaning and Disposal:</b>	N/A

**SECTION 14 TRANSPORT INFORMATION**

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

<b>Shipping Name:</b>	N/A	<b>Packaging Authorizations</b>	<b>Quantity Limitations</b>
<b>Shipping Symbol:</b>	N/A	a) Exceptions:	N/A
<b>Hazard Class:</b>	N/A	b) Non-bulk Packaging:	N/A
<b>ID No:</b>	N/A	c) Bulk Packaging:	N/A
<b>Packing Group:</b>	N/A		<b>Vessel Stowage Requirements</b>
<b>Label:</b>	N/A		a) Vessel Stowage: N/A
<b>Special Provisions:</b>	The container is sealed up. Keep dry.		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)  
All components are listed on TSCA Inventory (USA) and METI list (Japan)

**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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