MATERIAL SAFETY DATA SHEET

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

CLOVER TECHNOLOGIES

4200 COLUMBUS STREET OTTAWA, ILLINOIS 61350



NFPA/HMIS

1

HEALTH

REACTIVITY

PPE (Sec.8)

29CRF 1910.1200

EMERGENCY TELEPHONE NUMBER 1-800-356-2728
INFORMATION TELEPHONE NUMBER 1-919-774-3808
DATE PREPARED: 4/14/06 SIGNATURE OF PREPARER (OPTIONAL)

SECTION 1 CHEMICAL PRODUCT / NAME

Product/Chemical Name: Toner for use in HP 1200 Printer

CTG Product No: BCS35
CAS Number: Mixture
Other Designations: N/A

General Use: Laser Printer

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS						
Ingredient Name:	CAS NUMBER	EU NUMBER	%	OSHA	ACGIH	OTHER
				PEL	TLV	LIMITS
3.				Toner is regulated under OSHA as particulate not otherwise regulated:		
Styrene-Acrylate Copolymer	60163-90-8		40-65		ā	
				OSHA PEL: 15mg/m ³		
Magnetite	1309-37-1		30-50	5mg/m ³ for respirable fraction		
Polypropylene Wax	9003-07-0		<5	ACGIH TWA: 10mg/m ³ for nu	isance particula	ate
Dyestuff	31714-55-3		<5			
Silica	7631-86-9		<1			

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: 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/m³)

SECTION 4 FIRST AID MEASURES

Inhalation: Remove to fresh air. 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: N/A

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

if serious signs and symptoms perist.

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 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 breating 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. No special requirements.

Cleanup: No special requireme 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:

Venilation: 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

atmosheres.

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 wprk 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

Physical State: Water Solubility: Negligible Appearance and Odor: Other Solubilities: Black, free flowing powder, faint odor N/A Odor Threshold: N/A **Boiling Point:** N/A Vapor Pressure: N/A Freezing/Melting Point: N/A Vapor Density (Air=1): Heavier than air. Viscosity: N/A Formula Weight: Refractive Index: N/A N/A Density: Surface Tension: N/A N/A Specific Gravity: $(H_2O)=1$, at 4°C): 1.3-1.8 % Volatile: N/A :Ha N/A **Evaporation Rate:** N/A

SECTION 10 STABILITY AND REACTIVITY

Stability: N/A
Polymerization: N/A

Chemical Incompatibilities: N/A
Conditions to Avoid: Avoid open flames

Hazardous Decomposition Products: Toxic decomposition products formed on combustion

SECTION 11 TOXICOLOGICAL INFORMATION

MISCELLANEOUS TOXICOLOGICAL INFORMATION

In a Xerox sponsored chronic inhalation study in rats using a special toner, there were no lung changes at all in the lowest exposure level (1 mg/cu. M) the most relevant level to potential human exposure. A very slight degree of fibrosis was noted in 25% of the animals at mid-exposure level (4 mg/cu. m) in all animals. These findings are attributed to "Lung Overload". A generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. The special test toner was ten times more respirable than commercially available toners to comply with EPA testing protocol and would not function properly in a copier of printing equipment.

Mutagenicity: No Mutagenicity detected by AMES test.

Carcinogens: None Present

This material when used as intended, does not present a health or safety hazard.

SECTION 12 ECOLOGICAL INFORMATION

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

SECTION 13 DISPOSAL CONSIDERATIONS

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

all federal, state, and local environmental regulations.

Disposal Regulartory Requirements: 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:
 N/A
 b) Non-bulk Packaging:
 N/A
 Railcar:
 N/A

ID No: N/A c) Bulk Packaging: N/A

 Packing Group:
 N/A
 Vessel Stowage Requirements

 Label:
 N/A
 a) Vessel Stowage: N/A

Special Provisions: 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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