MATERIAL SAFETY DATA SHEET		CLOV	CLOVER TECHNOLOGIES		CLOVER TECHNOLOGIES GROUP™		
MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29CRF 1910.1200			4200 COLUMBUS STREET		CLOVER TECHNOLOGIES GROUP		
			AWA, ILLINOIS 6135				
		0111	OTTAWA, ILLINOIS 01550				
	EMEF	RGENCY TELEF	HONE NUMBER +8	2-63-830-4160/61			
	INFC	DRMATION TEL	EPHONE NUMBER ·	+82-63-830-4161			
	DATE PREPARED: 12/10	0/07	SIGNATURE OF PR	EPARER (OPTIONA	L)		
SECTION 1 CHEM	MICAL PRODUCT / NAM	1E					
Product/Chemical N		-18					
CTG Product No:	BC53 A/X						
CAS Number:	Mixture						
Other Designations:							
General Use:	Laser Printer						
SECTION 2 COMI	POSITION / INFORMATI	ION ON INGREI	DIENTS				
	CAS	EU	%	OSHA	ACGIH	OTHER	
Ingredient Name:	NUMBEI	R NUMBER	,.	PEL	TLV	LIMITS	
			T	in regulated water C		o not	
			Toner	is regulated under C otherwise re	•	enot	
Styrene-Acrylate resi	n 25036-16	-2	35-50		0		
Magnetite	1309-38-	-2	40-50				
Polyolefin	Trade Sec	ret	1-5				
Metal Complex	Trade Sec	ret	1-5				
Silica	Trade Sec	ret	1-3				
NDA = NO DATA AV	AILABLE						
N/A = NOT APPLICA							
	RDOUS IDENTIFICATION					// 11/10	
Emergency Overvie		•	er. If used as intended,	the product does		/HMIS	
	not present an acute or ch				HEALTH	1	
<b>T</b>	Prolonged preathing of high	in concentrations r	may cause adverse effe	cts on the			
Target Organs:		respiratory system.					
	respiratory system.	contact incidental	Routes of Exposure: Inhalation, dermal contact, incidental ingestion PPE (Sec.8) -				
Routes of Exposure	respiratory system.	contact, incidental	ingestion		= (000.0)		
Routes of Exposure Eye contact: Not a	respiratory system. : Inhalation, dermal c n irritant		-	(tract	(000.0)		
Routes of Exposure Eye contact: Not a Inhalation: Exces	respiratory system. Inhalation, dermal on n irritant ssive inhalation may cause i		-	y tract.			
Routes of Exposure Eye contact: Not a Inhalation: Exces Ingestion: None	respiratory system. Inhalation, dermal on n irritant ssive inhalation may cause in currently known.	rritation of the nos	-	y tract.			
Routes of Exposure Eye contact: Not a Inhalation: Exces Ingestion: None Dermal contact:	respiratory system. Inhalation, dermal of n irritant ssive inhalation may cause i currently known. Not an irritant, not a sensit	irritation of the nos	e, throat and respiratory	y tract.			
Routes of Exposure Eye contact: Not a Inhalation: Exces Ingestion: None Dermal contact:	respiratory system. Inhalation, dermal on n irritant ssive inhalation may cause in currently known.	rritation of the nos tizer. n Exposure to thi	e, throat and respiratory		<u> </u>		
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Routes of Exposure Eye contact: Not a Inhalation: Exces Ingestion: None Dermal contact: Medical Conditions	respiratory system. Inhalation, dermal of n irritant ssive inhalation may cause if currently known. Not an irritant, not a sensit Aggravated By Long-Term Respiratory disorders, suc concentrations of this prod None currently known.	irritation of the nos tizer. <b>n Exposure to thi</b> th as asthma, mayl fuct.	e, throat and respiratory	nged exposure to hig	<u> </u>		
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SECTION 3	FIRE FIGH	TING MEASURES
Flash Point:	N/A	
Flash Point M		
Burning Rate:		
-		. Not Determined
-	-	: Not Determined
LEL:	N/A	
UEL:	N/A	
Flammability		
Extinguishing		Water spray, dry chemical, foam, carbon dioxide, or halon type extinguishers.
Unusual Fire	-	
Hazardous Co	ombustion Pr	
		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.
<b>SECTION 6</b>	ACCIDENT	AL RELEASE MEASURES
Spill / Leak Pr		N/A
Small Spills:	Scoop into a	container for disposal, suction up remaining material with a high efficiency
•	vacuum clea	iner.
Large Spills:	Scoop into a	container for disposal, suction up remaining material with a high efficiency
J. J. J.	vacuum clea	
Containment:		ills, avoid suspending particles, collect for later disposal. Do not release
	• •	or waterways.
Cleanup:		equirements.
Regulatory Re	•	
		AND STORAGE
Handling Pred		Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.
Storage Requ		Store in a cool, dry location.
Regulatory Re		
	-	E CONTROLS / PERSONAL PROTECTION
Engineering C		
Ventilation:		
ventilation.		aral or local exhaust ventilation systems to maintain airborne concentrations
	-	eral or local exhaust ventilation systems to maintain airborne concentrations
	below OSHA	PELs (sec.2). Local exhaust ventilation is preferred because it prevents contaminant
	below OSHA dispersion in	
Administrative	below OSHA dispersion in e Controls:	A PELs (sec.2). Local exhaust ventilation is preferred because it prevents contaminant not the work area by controlling it at its source.
Administrative Respiratory P	below OSHA dispersion in e Controls:	A PELs (sec.2). Local exhaust ventilation is preferred because it prevents contaminant not the work area by controlling it at its source. Seek professional advise prior to respirator selection and use.
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#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:		Water Solubility:	Negligible
Appearance and Odor:	Black, free flowing powder, slight odor	Other Solubilities:	N/A
Odor Threshold:	N/A	Boiling Point:	N/A
Vapor Pressure:	N/A	Freezing/Melting Point:	100-150 C (Softening 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 <sub>2</sub> O)=1, at 4°C): 1.0-1.5	% Volatile:	N/A
pH:	N/A	Evaporation Rate:	N/A

# SECTION 10 STABILITY AND REACTIVITY

Stability: Stable Polymerization: N/A Chemical Incompatibilities:

Conditions to Avoid: None

Hazardous Decomposition Products: CO and CO2 and other decomposition products when burned

#### SECTION 11 TOXICOLOGICAL INFORMATION

N/A

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 Test Negative	(Estimated from the results of testing the constituent components)
		Teratogenicity:	N/A

N/A

N/A N/A

\*See NIOSH, RTECS for additional toxicity data.

# SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:	N/A	
Environmental Fate:	N/A	
Environmental Degra	adation:	N/A
Soil Absorption / Mo	bility:	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 Regulatory 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		
Shipping Symbol:	N/A	a) Exceptions:	N/A	
Hazard Class:	N/A	b) Non-bulk Packaging:	N/A	
ID No:	N/A	c) Bulk Packaging:	N/A	
Packing Group:	N/A			
Label:	N/A			
Special Provisions:	N/A			

**Quantity Limitations** a) Passenger, Aircraft, or Railcar: 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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