MATERIAL SAFETY D	CLOVE	CLOVER TECHNOLOGIES		CLOVER TECHNOLOGIES GROUP™						
MAY BE USED TO COM	4200 C	OLUMBUS STREET	VOLR	MAGE IS EVERYTHING.						
HAZARD COMMUNICAT	OTTAV	OTTAWA, ILLINOIS 61350		$\mathcal{O}$						
29CRF 1910.1200										
	EMERGE	NCY TELEPH	ONE NUMBER +82	2-63-830-4160/61						
			PHONE NUMBER +							
DA	ATE PREPARED: 3/9/10		SIGNATURE OF PRE	EPARER (OPTIONAL)						
	AL PRODUCT / NAME									
Product/Chemical Name		MICR Black	Toner							
	C05AMM / HPLJ P2035/F	2050 Series								
CAS Number:	Mixture									
Other Designations:	N/A									
General Use:	Laser Printer									
SECTION 2 COMPOS	SITION / INFORMATION	ON INGREDI	ENTS							
	CAS	EU	ACGIH	TLV /	OTHER					
Ingredient Name:	NUMBER	NUMBER	ACGIN	PEL	LIMITS					
			Toner	is regulated under OSHA						
				otherwise regulate						
Polyester Resin	N/A		<40%	10mg/m <sup>3</sup> total due						
Styrene-Acrylate Copolyn			15-30%	10mg/m <sup>3</sup> total due						
Polypropylene Wax	9010-79-1		<10%	10mg/m <sup>3</sup> total due						
Iron Oxide	1317-61-9		20-35%	10mg/m <sup>3</sup> total due						
Iron Oxide	1227-89-3		10-25%	10mg/m <sup>3</sup> total due						
Charge Control Dye	84179-66-8		<2%		5mg/m <sup>3</sup> total dust					
Fumed Silica	68611-44-7		<1%	10mg/m <sup>-</sup> total dus	10mg/m <sup>3</sup> total dust					
Fumed Silica	67792-90-7		<1%	romg/m total dus	51					
NDA = NO DATA AVAIL	ABLE									
N/A = NOT APPLICABLE	E									
SECTION 3 HAZARD	OUS IDENTIFICATION									
Emergency Overview:	Product is stable nonflar		r. If used as intended,		NFPA/HMIS					
	t present an acute or chronic				EALTH 1					
	olonged breathing of high co	ncentrations ma	ay cause adverse effe		AMMABIL 1					
	spiratory system.	at incidental in	apation		EACTIVITY <b>0</b>					
	Inhalation, dermal conta				PE (Sec.8) -					
-	tant. Flush thoroughly with v			•						
Inhalation: Excessive inhalation may cause irritation of the nose, throat and respiratory tract.										
	•		Ingestion: None currently known.							
Ingestion: None curr	rently known.	Wash contami	nated areas with soan	and water						
Ingestion: None curr Dermal contact: No	rently known. t an irritant, not a sensitizer.		nated areas with soap	and water.						
Ingestion: None curi Dermal contact: No Medical Conditions Agg	rently known. t an irritant, not a sensitizer. <b> ravated By Long-Term Ex </b>	oosure to this								
Ingestion: None curi Dermal contact: No Medical Conditions Agg Re	rently known. t an irritant, not a sensitizer. <b>jravated By Long-Term Exj</b> spiratory disorders, such as	oosure to this								
Ingestion: None curi Dermal contact: No Medical Conditions Agg Re col	rently known. It an irritant, not a sensitizer. Iravated By Long-Term Exp spiratory disorders, such as incentrations of this product.	oosure to this								
Ingestion: None curi Dermal contact: No Medical Conditions Agg Re col	rently known. t an irritant, not a sensitizer. gravated By Long-Term Exp spiratory disorders, such as ncentrations of this product. ne currently known.	oosure to this asthma, maybe	aggravated by prolo		rstem.					
Ingestion: None curr Dermal contact: No Medical Conditions Agg Re con Chronic Effects: No Signs and symptoms of	rently known. t an irritant, not a sensitizer. gravated By Long-Term Exp spiratory disorders, such as ncentrations of this product. ne currently known.	oosure to this asthma, maybe exposure to du	aggravated by prolor	nged exposure to high ay irritate the respiratory sy						
Ingestion: None cur Dermal contact: No Medical Conditions Agg Re con Chronic Effects: No Signs and symptoms of Physical Hazard: No	rently known. t an irritant, not a sensitizer. <b>pravated By Long-Term Exp</b> spiratory disorders, such as ncentrations of this product. ne currently known. <b>exposure:</b> Prolonged t classified as flammable or	oosure to this asthma, maybe exposure to du	aggravated by prolor	nged exposure to high ay irritate the respiratory sy						
Ingestion: None cur Dermal contact: No Medical Conditions Agg Re con Chronic Effects: No Signs and symptoms of Physical Hazard: No SECTION 4 FIRST AI	rently known. It an irritant, not a sensitizer. Irravated By Long-Term Exp spiratory disorders, such as ncentrations of this product. Ine currently known. I exposure: Prolonged It classified as flammable or D MEASURES	oosure to this asthma, maybe l exposure to du combustible. It	aggravated by prolor usts of this product ma will burn in case of fire	nged exposure to high ay irritate the respiratory sy e. Avoid contact with strong						
Ingestion: None curr Dermal contact: No Medical Conditions Agg Re con Chronic Effects: No Signs and symptoms of Physical Hazard: No SECTION 4 FIRST AI Inhalation: Remove t	rently known. It an irritant, not a sensitizer. Irravated By Long-Term Exp spiratory disorders, such as incentrations of this product. Ine currently known. Exposure: Prolonged It classified as flammable or D MEASURES o fresh air. Treat any irritation	asthma, maybe asthma, maybe l exposure to de combustible. It n symptomatic:	aggravated by prolor usts of this product ma will burn in case of fire ally. Call a physician if	nged exposure to high ay irritate the respiratory sy e. Avoid contact with strong f condition persists.						
Ingestion: None curi Dermal contact: No Medical Conditions Agg Re col Chronic Effects: No Signs and symptoms of Physical Hazard: No SECTION 4 FIRST AI Inhalation: Remove t Eye Contact: In case of	rently known. It an irritant, not a sensitizer. Irravated By Long-Term Exp spiratory disorders, such as incentrations of this product. Ine currently known. Exposure: Prolonged It classified as flammable or D MEASURES to fresh air. Treat any irritation f contact immediately flush w	asthma, maybe asthma, maybe l exposure to de combustible. It n symptomatic	aggravated by prolor usts of this product ma will burn in case of fire ally. Call a physician if pressure water for a	nged exposure to high ay irritate the respiratory sy e. Avoid contact with strong f condition persists.						
Ingestion: None curr Dermal contact: No Medical Conditions Agg Re con Chronic Effects: No Signs and symptoms of Physical Hazard: No SECTION 4 FIRST AI Inhalation: Remove to Eye Contact: In case of 15 minute	rently known. t an irritant, not a sensitizer. <b>gravated By Long-Term Exp</b> spiratory disorders, such as ncentrations of this product. ne currently known. <b>exposure:</b> Prolonged t classified as flammable or <b>D MEASURES</b> to fresh air. Treat any irritation i contact immediately flush we as. Remove any contact lens	asthma, maybe asthma, maybe l exposure to de combustible. It n symptomatica rith plenty of lov es to ensure th	aggravated by prolor usts of this product ma will burn in case of fire ally. Call a physician if pressure water for a	nged exposure to high ay irritate the respiratory sy e. Avoid contact with strong f condition persists.						
Ingestion: None curr Dermal contact: No Medical Conditions Agg Re con Chronic Effects: No Signs and symptoms of Physical Hazard: No SECTION 4 FIRST AI Inhalation: Remove t Eye Contact: In case of 15 minute Skin Contact: Wash we	rently known. It an irritant, not a sensitizer. Irravated By Long-Term Exp spiratory disorders, such as incentrations of this product. Ine currently known. Exposure: Prolonged It classified as flammable or D MEASURES to fresh air. Treat any irritation f contact immediately flush w	asthma, maybe asthma, maybe l exposure to de combustible. It n symptomatica rith plenty of lov es to ensure th	aggravated by prolor usts of this product ma will burn in case of fire ally. Call a physician if pressure water for a	nged exposure to high ay irritate the respiratory sy e. Avoid contact with strong f condition persists.						
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CECTION E								
		TING MEASURES						
Flash Point:	N/A							
Flash Point M								
Burning Rate:								
-	-	: Not Determined						
LEL:	LEL: N/A							
UEL:	N/A							
Flammability (	Classificatio	n: 1 Slight (HMIS, NFPA)						
Extinguishing	Media:	Water spray, dry chemical, foam, carbon dioxide, or halon type extinguishers.						
Unusual Fire o	of Explosion	Hazards: May form flammable dust-air mixture.						
Hazardous Co	mbustion P	roducts: Carbon monoxide, carbon dioxide, nitrogen oxide and smoke.						
		Under certain conditions some aliphatic aldehydes and carboxylic acids may form.						
Fire-Fighting I	Instructions:	Do not release runoff from fire controls methods to sewers or waterways.						
Fire-Fighting I		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						
-		container for disposal, suction up remaining material with a high efficiency						
•	vacuum clea							
Large Spills		a container for disposal, suction up remaining material with a high efficiency						
go opo.	vacuum clea							
Containment:		ills, avoid suspending particles, collect for later disposal. Do not release						
Containinent.	• •	or waterways.						
Cleanup:		equirements.						
Regulatory Re								
	-	AND STORAGE						
Handling Prec	_	Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.						
Storage Requi		Store in a cool, dry location.						
	nements.							
	equirement:	N/A						
SECTION 8	equirement: EXPOSURI							
SECTION 8 Engineering C	equirement: EXPOSURI Controls:	N/A E CONTROLS / PERSONAL PROTECTION						
SECTION 8	equirement: EXPOSURE Controls: Provide gen	N/A E CONTROLS / PERSONAL PROTECTION eral or local exhaust ventilation systems to maintain airborne concentrations						
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SECTION 8 Engineering C Ventilation: Administrative Respiratory P Protective Clo Safety Station	equirement: EXPOSURI Controls: Provide gen below OSH/ dispersion ir e Controls: rotection: othing/Equipu	N/A         ECONTROLS / PERSONAL PROTECTION         eral or local exhaust ventilation systems to maintain airborne concentrations         A PELs (sec.2). Local exhaust ventilation is preferred because it prevents contaminant         to the work area by controlling it at its source.         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.         ment:       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.         remergency eyewash stations and washing facilities available in work area.         Separate contaminated work clothing from street clothes. Launder before         re-						
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SECTION 9 PHYS	ICAL AND CHEMI	CAL PROPERTIES		
Physical State:			Water Solubility:	Negligible
Appearance and Od	or: Black, free flo	wing 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 4	% Volatile:	N/A
pH:	N/A	0). 1.4	Evaporation Rate:	N/A
p	N/A		Evaporation Nate.	
SECTION 10 STAI	BILITY AND REAC	TIVITY		
Stability: Stable	)			
Polymerization:	N/A			
Chemical Incompati	bilities: N/A			
Conditions to Avoid				
Hazardous Decompo	osition Products:	CO and CO2 and other of	decomposition products whe	n burned
SECTION 11 TOX	COLOGICAL INFO	ORMATION		
Eye E	ffects: N/A		Toxicity Data:*	
Skin I	Effects: N/A		Acute Inhalation Effects:	N/A
			Acute Oral Effects:	N/A
			Chronic Effects:	N/A
			Carcinogenicity:	N/A
			Carcinogenicity.	N/A
			Mutaganisity Amon Toot	
			Mutagenicity: Ames Test	(Estimated from the results of
			Negative	testing the constituent components)
			Teratogenicity:	N/A
-	CS for additional toxic	•		
SECTION 12 ECO		IATION		
Ecotoxicity:	N/A			
Environmental Fate:				
Environmental Degra	adation: N/A			
Soil Absorption / Mo	bility: N/A			
SECTION 13 DISP		ATIONS		
			ts Iron Oxide under conditior	ns which meet
•	•	environmental regulations		
Disposal Regulatory		N/A		
Container Cleaning	-	N/A		
e e e e e e e e e e e e e e e e e e e				
SECTION 14 TRA	NSPORT INFORM	ATION		
DOT Transportation			y listed.	
Shipping Name:	N/A	Packaging Authorization	ons	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: Beeking Crown	N/A	c) Bulk Packaging:	N/A	Vessel Stewarz Daming waste
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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