HAZARD COMMUNICA	TION STANDARD	t e c h n o	logy essentials	8		
29CRF 1910.1200						
	EMERGEI	NCY TELEPH	IONE NUMBER +	-82-63-830-4160/61		
	INFORM	ATION TELEF	PHONE NUMBER	R +82-63-830-4161		
Di	ATE PREPARED: 5/31/06		SIGNATURE OF P	REPARER (OPTIONAL)		
SECTION 1 CHEMIC	AL PRODUCT / NAME					
Product/Chemical Nam	e: CLT-EF (CLT-14EF)				
CTG Product No: B	CX25					
CAS Number:	Mixture					
Other Designations:	N/A					
General Use:	Laser Printer					
SECTION 2 COMPO	SITION / INFORMATION		FNTS			
	CAS	EU		OSHA	ACGIH	OTHER
ngredient Name:	NUMBER	NUMBER	%	PEL	TLV	LIMITS
<u> </u>						
			Ton	er is regulated under OSH		e not
	05000 40 0		00.45	otherwise regu	ulated:	
Styrene acrylic resin	25036-16-2		30-45			
Magnetite Polyolefin	1309-38-2 Trade Secret		45-55 1-5			
olyolellin	Trade Secret		1-5			
Actal Complex	Trada Socrat		15			
Metal Complex Silica	Trade Secret 67762-90-7		1-5 1-2			
	67762-90-7					
Silica NDA = NO DATA AVAII N/A = NOT APPLICABL	67762-90-7					
Silica NDA = NO DATA AVAII N/A = NOT APPLICABL	67762-90-7 ABLE E					/HMIS
Silica NDA = NO DATA AVAII N/A = NOT APPLICABL SECTION 3 HAZARI Primary Entry Routes:	ABLE E DOUS IDENTIFICATION				NFPA HEALTH	V/HMIS
NDA = NO DATA AVAII N/A = NOT APPLICABL SECTION 3 HAZARI Primary Entry Routes: Target Organs: N	ABLE E DOUS IDENTIFICATION Inhalation				HEALTH FLMMBLTY.	1 1
NDA = NO DATA AVAII N/A = NOT APPLICABL SECTION 3 HAZARI Primary Entry Routes: Farget Organs: N Acute Effects: N nhalation: Slight irri	ABLE E DOUS IDENTIFICATION Inhalation /A /A tation of respiratory tract.				HEALTH FLMMBLTY. REACTIVITY	1 1
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SECTION 5	FIRE FIGH	TING MEASURES					
Flash Point:	N/A						
Flash Point M							
Burning Rate							
-		: Not Determined					
LEL:	N/A						
UEL:	N/A						
-		n: 1 Slight (HMIS NEDA)					
Flammability Classification: 1 Slight (HMIS, NFPA) Extinguishing Media: Water spray, dry chemical, fear, carbon diavide, or balen type extinguishers							
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 Co	-						
		Under certain conditions some aliphatic aldehydes and carboxylic acids					
Eiro Eighting	Instructions	may form.					
		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	ACCIDENT	AL RELEASE MEASURES					
SECTION 6 Spill / Leak Pr		N/A					
•		a container for disposal, suction up remaining material with a high efficiency					
onian opinioi	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					
		or waterways.					
Cleanup:		equirements.					
Regulatory R							
		AND STORAGE					
Handling Pred							
	cautions:	Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.					
		Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources. Store in a cool, dry location.					
Storage Required Regulatory Regulatory Regulatory	irements:	Store in a cool, dry location.					
Storage Requ Regulatory Re	irements: equirement:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Re	irements: equirement: EXPOSURE	Store in a cool, dry location.					
Storage Requine Regulatory Regulatory 8	uirements: equirement: EXPOSURE Controls:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Re SECTION 8 Engineering (irements: equirement: EXPOSURE Controls: Provide gen	Store in a cool, dry location. N/A E CONTROLS / PERSONAL PROTECTION eral or local exhaust ventilation systems to maintain airborne concentrations					
Storage Requ Regulatory Re SECTION 8 Engineering (irements: equirement: EXPOSURE Controls: Provide gen below OSH	Store in a cool, dry location. N/A E CONTROLS / 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					
Storage Requ Regulatory Re SECTION 8 Engineering (irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion ir	Store in a cool, dry location. N/A E CONTROLS / PERSONAL PROTECTION eral or local exhaust ventilation systems to maintain airborne concentrations					
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Storage Requ Regulatory Ro SECTION 8 Engineering 0 Venilation:	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion ir re Controls:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering 0 Venilation: Administrativ	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion ir re Controls:	Store in a cool, dry location. N/A E CONTROLS / 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					
Storage Requ Regulatory Ro SECTION 8 Engineering 0 Venilation: Administrativ	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion ir re Controls:	Store in a cool, dry location. N/A E CONTROLS / 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					
Storage Requ Regulatory Ro SECTION 8 Engineering 0 Venilation: Administrativ	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion ir re Controls:	Store in a cool, dry location. 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 not 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					
Storage Requ Regulatory Ro SECTION 8 Engineering 0 Venilation: Administrativ	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion ir re Controls:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering 0 Venilation: Administrativ	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion ir re Controls:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering 0 Venilation: Administrativ	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion ir re Controls:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering O Venilation: Administrativ Respiratory P	irements: equirement: EXPOSURE Controls: Provide gen below OSHA dispersion ir re Controls: Protection:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering 0 Venilation: Administrativ	irements: equirement: EXPOSURE Controls: Provide gen below OSHA dispersion ir re Controls: Protection:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering O Venilation: Administrativ Respiratory P	irements: equirement: EXPOSURE Controls: Provide gen below OSHA dispersion ir re Controls: Protection:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering O Venilation: Administrativ Respiratory P	irements: equirement: EXPOSURE Controls: Provide gen below OSHA dispersion ir re Controls: Protection:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering O Venilation: Administrativ Respiratory P	irements: equirement: EXPOSURE Controls: Provide gen below OSHA dispersion ir re Controls: Protection:	Store in a cool, dry location. 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 into 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. <i>Warning! Air-purified respirators do not protect workers in oxygen-deficient</i> <i>atmosheres.</i> 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					
Storage Requ Regulatory Ro SECTION 8 Engineering C Venilation: Administrativ Respiratory P	irements: equirement: EXPOSURI Controls: Provide gen below OSH/ dispersion ir re Controls: Protection:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering C Venilation: Administrativ Respiratory P Protective Clo Safety Statior	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion in re Controls: Protection: Protection:	Store in a cool, dry location. 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 atmosheres. ment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protection regulations (29 CFR 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.					
Storage Requ Regulatory Ro SECTION 8 Engineering C Venilation: Administrativ Respiratory P Protective Clo Safety Statior	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion in re Controls: Protection: Protection:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering C Venilation: Administrativ Respiratory P Protective Clo Safety Statior	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion in re Controls: Protection: Protection:	Store in a cool, dry location. 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 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 atmosheres. 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 wprk clothing from street clothes. Launder before re-use. Remove this material from your shoes and clean personal protective					
Storage Requ Regulatory Ro SECTION 8 Engineering O Venilation: Administrativ Respiratory P Protective Clo Safety Station Contaminated	irements: equirement: EXPOSURE Controls: Provide gen below OSH/ dispersion in re Controls: Protection: Protection:	Store in a cool, dry location. N/A					
Storage Requ Regulatory Ro SECTION 8 Engineering C Venilation: Administrativ Respiratory P Protective Clo Safety Statior	irements: equirement: EXPOSURI Controls: Provide gen below OSH/ dispersion in re Controls: Protection: Protection: othing/Equiption ms: Make d Equipment: Never eat, d	Store in a cool, dry location. 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 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 atmosheres. 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 wprk clothing from street clothes. Launder before re-use. Remove this material from your shoes and clean personal protective					
Storage Requ Regulatory Ro SECTION 8 Engineering O Venilation: Administrativ Respiratory P Protective Clo Safety Station Contaminated	irements: equirement: EXPOSURI Controls: Provide gen below OSH/ dispersion in re Controls: Protection: Protection: othing/Equiption ns: Make d Equipment: Never eat, d	Store in a cool, dry location. N/A					

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES									
	L AND CHEM	ICAL PROPERTIES							
Physical State:			Water Solubility:	Negligible					
Appearance and Odor:		owing powder, slight odor		N/A					
Odor Threshold:	N/A		Boiling Point:	N/A					
Vapor Pressure:	N/A		Freezing/Melting Point:	100-150 C (Sofetening 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 ₂ O)=1, at 4	4°C): 1.0-1.5	% Volatile:	N/A					
pH:	N/A		Evaporation Rate:	N/A					
SECTION 10 STABILI									
Polymerization: N/A									
Chemical Incompatibilitie	es: N/A								
Conditions to Avoid: N/a	-								
Hazardous Decompositio	on Products:	CO and CO2 and other of	lecomposition products when	burned					
SECTION 11 TOXICO	OGICAL INF	ORMATION							
Eve Effect			Taxiaity Data:*						
Eye Effect	s: N/A		Toxicity Data:*						
Skin Effec	ts: N/A		Acute Inhalation Effects:	N/A					
			Acute Oral Effects:	N/A					
			Chronic Effects:	N/A					
				N/A					
			Carcinogenicity:						
			Mutagenicity: Ames Test	(Estimated from the results of					
				(Estimated from the results of testing the constituent components)					
			Negative						
			Teratogenicity:	N/A					
*See NIOSH, RTECS for additional toxicity data. SECTION 12 ECOLOGICAL INFORMATION									
Ecotoxicity: N/A									
Environmental Fate:	N/A								
Environmental Degradati									
Soil Absorption / Mobility	/: N/A								
SECTION 13 DISPOSA	AL CONSIDE	RATIONS							
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 Re		N/A							
Container Cleaning and I	-	N/A							
	-								
SECTION 14 TRANSPORT INFORMATION									
DOT Transportation Data	(49 CFR 172.1	01): Not specifically	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: 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:

SARA Toxic Chemical (40 CFR 372.65): Not listed

N/A

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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