MATERIAL SAFETY DATA SHEET CLOVER TECHNOLOGIES CLOVER TECHNOLOGIES MAY BE USED TO COMPLY WITH OSHA'S 4200 COLUMBUS STREET YOUR TECHNOLOGIES HAZARD COMMUNICATION STANDARD OTTAWA, ILLINOIS 61350 YOUR TECHNOLOGIES 29CRF 1910.1200 EMEDOENOV TELEDUONE NUMPER 1,000,050,050,050



DATE	PREPARED:02/01/07		SIGNATURE C	F PREPARER (OPTIONA	AL)	
SECTION 1 CHEMICAL	PRODUCT / NAME					
Product/Chemical Name:	Dell 310)-4587 / W530	0 Toner			
CAS Number:	Mixture					
Other Designations:	N/A					
General Use:	Laser Printer					
SECTION 2 COMPOSITI	ON / INFORMATION	ON INGREDI	ENTS			
	CAS	EU	%	OSHA	ACGIH	OTHER
Ingredient Name:	CAS NUMBER	EU NUMBER	%	OSHA PEL	ACGIH TLV	OTHER LIMITS
		-	%			-
		-			TLV	LIMITS
		-		PEL	TLV IA as particulate r	LIMITS
Ingredient Name:		-		PEL er is regulated under OSH	TLV IA as particulate r	LIMITS
Ingredient Name: Polyester Resin	NUMBER	-	Ton	PEL er is regulated under OSH otherwise regu	TLV IA as particulate r	LIMITS
Ingredient Name: Polyester Resin Polyester/styrene Acrylic Res	NUMBER	-	Ton 50-80	PEL er is regulated under OSH	TLV IA as particulate r	LIMITS
Ingredient Name: Polyester Resin Polyester/styrene Acrylic Res Carbon Black	NUMBER Confidential in Confidential	-	Ton 50-80 10-30	PEL er is regulated under OSH otherwise regu	TLV IA as particulate r llated:	LIMITS
Ingredient Name: Polyester Resin Polyester/styrene Acrylic Res Carbon Black Wax	NUMBER Confidential in Confidential 1333-86-4	-	Ton 50-80 10-30 5-10	PEL er is regulated under OSH otherwise regu	TLV IA as particulate r llated:	LIMITS
	NUMBER Confidential in Confidential 1333-86-4 8015-86-9	-	Ton 50-80 10-30 5-10 1-5	PEL er is regulated under OSH otherwise regu	TLV IA as particulate r llated:	LIMITS

NDA = NO DATA AVAILABLE N/A = NOT APPLICABLE

SECTION 3	HAZARDOUS IDENTIFICATION		
Primary Entry	Routes: Inhalation	NFPA/HM	ISDell
		HEALTH	1
		FLAMMABILITY	1
		REACTIVITY	0
Carcinogenici	ity:	PPE (Sec.8)	-
	Carbon Black was reclassified as a Group 2B by IRAC in 1996 based on the results of only the inhalation study in rats. However, there was not observed the incidence of tumors on the results on dermal or oral studies. Also 2-years inhalation study using toner containing carbon black showed no association between toner exposure and animal tumors.		
Medical Cond	itions Aggravated By Long-Term Exposure: Not Applicable		
	Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung or	verloading", a generic r	esponse
	to excessive amounts of any dust retained in the lung for a prolonged internal.	renedaling , a generie i	soperioe
	Use of this product, as intended, does not result in inhalation od excessive dust.		
SECTION 4	FIRST AID MEASURES		
Inhalation:	Gargle with water, move to place in fresh air. If unsuccessful, get medical attention.		
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 with several glasses of water. If unsuccessful, get medical help.		
	After first aid, get appropriate in-plant paramedic or community medical support		
	if serious signs and symptoms persist.		
Note to Physic	cians: N/A		
Special Preca	utions / Procedures: N/A		

		TING MEASURES
Flash Point:	N/A	
Flash Point M	ethod: N/A	
Burning Rate:	: N/A	
Auto Ignition	Temperature	: Not Determined
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	of Explosion	Hazards: May form flammable dust-air mixture.
Hazardous Co		
		Under certain conditions some aliphatic aldehydes and carboxylic acids
		may form.
Fire-Fiahtina	Instructions:	Do not release runoff from fire controls methods to sewers or waterways.
Fire-Fighting		Because fire may produce toxic thermal decomposition products, wear a
	-4	self-contained breathing apparatus (SCBA) with full face piece operated
		in pressure-demand or positive-pressure mode.
SECTION 6	ACCIDENT	AL RELEASE MEASURES
Spill / Leak Pr		N/A
•		container for disposal, suction up remaining material with a high efficiency
oman opins.	vacuum clea	
Largo Spills:		container for disposal, suction up remaining material with a high efficiency
Large Spins.	vacuum clea	
Containment		
Containment:	• •	Ils, avoid suspending particles, collect for later disposal. Do not release
0		or waterways.
Cleanup:	No special re	
Regulatory Re	-	
		AND STORAGE
Handling Pred		Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.
Storage Requ	irements.	Store in a cool, dry location.
Regulatory Re	equirement:	N/A
Regulatory Re	equirement:	-
Regulatory Re	equirement: EXPOSURE	N/A
Regulatory Re SECTION 8	equirement: EXPOSURE Controls:	N/A
Regulatory Re SECTION 8 Engineering (equirement: EXPOSURE Controls: Provide gene	N/A E CONTROLS / PERSONAL PROTECTION
Regulatory Re SECTION 8 Engineering (equirement: EXPOSURE Controls: Provide gene below OSHA	N/A E CONTROLS / PERSONAL PROTECTION eral or local exhaust ventilation systems to maintain airborne concentrations
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	ICAL AND CHE	MICAL PROPERTIES		
Physical State:			Water Solubility:	Insoluble
Appearance and Ode	or: Black, free	flowing powder, faint odor	Other Solubilities:	N/A
Odor Threshold:	N/A		Boiling Point:	N/A
Vapor Pressure:	N/A		Freezing/Melting Point:	N/A
Vapor Density (Air=1): Heavier the	an air.	Viscosity:	N/A
Formula Weight:	, N/A		Refractive Index:	N/A
Density:	N/A		Surface Tension:	N/A
Specific Gravity:		tt 4°C): 1.21	% Volatile:	N/A
	(H ₂ O)=1, a N/A	((4 O). 1.21		N/A
pH:	N/A		Evaporation Rate:	N/A
SECTION 10 STAI	BILITY AND RE	ACTIVITY		
Stability: Stable	1			
Polymerization:	None			
Chemical Incompatil	bilities: Non	e applicable in normal use		
Conditions to Avoid	None applicable i	n normal use		
Hazardous Decompo	••			
SECTION 11 TOX	COLOGICAL IN	IFORMATION		
Acute Toxicity:			Sensitization:	
Acute Oral Toxicity:	Rat	:>= 5000mg/kg	Acute Skin Irritation:	Non-Irritant
Acute Dermal Toxicity			Acute Eye Irritation:	Not Applied
,			•	
Acute Inhalation Toxic	sity: N/A		Acute Allergenic Effects:	Non-skin sensitive
Special Effects:				
Carcinogenicity:	carbon black and	lung tumors. Moreover, 2-y		s have not demonstrated as association between a typical toner preparation containing carbon blac levelopment in rats.
	Negative			
Productive System:	No data is N/A	available on this product		
SECTION 12 ECO	LOGICAL INFO	RMATION		
Ecotoxicity:	N/A			
Environmental Fate:	N/A			
Environmental Degra	adation: N/A			
Soil Absorption / Mo	bility: N/A			
SECTION 13 DISP	OSAL CONSID	ERATIONS		
Disposal: Waste	material may be i	ncinerated / or recycled for	its Iron Oxide under condition	ons which meet
•	eral, state, and loc	al environmental regulation	IS.	
Disposal Regulatory		N/A		
Container Cleaning a	•	N/A		
Container Cleaning a	ina Disposai.	N/A		
SECTION 14 TRA	NSPORT INFOR	RMATION		
DOT Transportation	Data (49 CFR 172	2.101): Not specifical	ly 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

-	5 REGULATORY INFORMATION ions:
RCRA Hazaro	dous Waste Number: Not listed (40 CFR 261.33)
RCRA Hazaro	dous Waste Classification: (40 CFR 261): Not classified
CERCLA Haz	zardous Substance (40 CFR 302.4) listed unlisted specific per RCRA, sec. 3001;
	CWA sec.311 (b)(4);
CWA, Sec. 30	07(a),CAA,Sec.112
CERCLA Rep	portable Quantity(RQ), Not listed
SARA 311/31	2 Codes: N/A
SARA Toxic (Chemical (40 CFR 372.65): Not listed
SARA EHS (E	Extremely Hazardous Substance) (40CFR 355): Not listed, Threshold Planning Quantity (TPQ)
OSHA Regul	
	ent (29 CFR 1910.1000< Table Z-1-A): Particulates not otherwise regulated.
State Regula	tions: Check your states regulations that may specifically list copy machine toner.
SECTION 1	6 OTHER INFORMATION
Prepared By:	
Revision Note	es: N/A
Additional Ha	zard Rating System: N/A
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