MATERIAL SAFETY DATA SHEET

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29CFR 1910.1200



Emergency telephone number 1-800-356-2728 telephone number 1-919-774-3808 3/13/02 SIGNATURE OF PREPARER (OPTIONAL)

	DATE PREPARED	3/13/02	SIGNATURE OF PREPARER (OPTIONAL)
		0/10/02	SIGNATORE OF THEI ARER (OF HORAE)
SECTION 1 CHEMIC	AL PRODUCT / NAME		
Product/Chemical Na	me:	Optra T 62	0B
CAS Number:	Mixture		
Other Designations:	N/A		
General Use:	Laser Printer		

SECTION 2 COMPOS	ITION / INFORMATI	ON ON INGREDIENT	S			
		CAS	%	OSHA	ACGIH	OTHER
Ingredient Name:		NUMBER		PEL	TLV	LIMITS
				Toner is regulated under OSI otherwise regu		ot
Styrene-Acrylate Copc	olymer	29497-14-1	< 95			
Carbon Black		1333-86-4	< 10	3.5 mg/m ³		
Polypropylene		9003-07-0	< 2			
Organic pigment		84179-66-8	< 1	0.5 mg/m ³		
Amorphous Silica		68909-20-6	< 1	80 mg/m ³		
NDA = NO DATA AVAIL N/A = NOT APPLICABL						
SECTION 3 HAZARD	OUS IDENTIFICATIO	N				
Primary Entry Routes	: Inhalation					HMIS
Target Organs:	N/A					H 1
Acute Effects:	N/A					F 1
Inhalation:	Slight irritation of re	espiratory tract.				R 0
Eye:	Dust may cause irritation by mechanical abrasion.				PPE	

Inhalation:	Slight irritation of respiratory tract.		K U	
Eye:	Dust may cause irritation by mechanical abrasion. PPE			
Skin:	Slight irritation.	Slight irritation. Sec.8		
Ingestion:	None known.			
Carcinogenicity:	Carbon black is reclassified as a	a group 2B by IARC, but inhalation tests using a		
	typical toner showed no associa	tion between toner and animal tumors.		
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 manne	er that could generate airborne particles (dust), it is recommended	that	
	the dust be treated as a NUISANCE F	PARTICULATE according to the American Conference of Governme	ent	
	Industrial Hygienists (ACGIH)(TLV=10)mg/m ³).		
SECTION 4 FIRST	AID MEASURES			
Inhalation:	Remove to fresh air. Treat any irritat	ion 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 param	edic or community medical support		
if ser	ious sign and symptoms persist.			
Note to Physicians:	N/A			
Special Precautions / procedures: N/A				

Section 5 FIRE FIGHTING MEASU	RES
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 or explosion hazaro	
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 control 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.
SECTION 6 ACCIDENTAL RELE	ASE MEASURES
Spill / Leak Procedures:	N/A
Small Spills: Scoop into	container for disposal, suction up remaining material with high efficiency
vacuum o	leaner.
Large Spills: Scoop into	container for disposal, suction up remaining material with high efficiency
vacuum o	leaner.
Containment: For large	spills, avoid suspending particles, collect for later disposal. Do not release
into sewe	rs or waterways.
Cleanup: No specia	al requirements.
REGULATORY REQUIREMENT :	N/A
SECTION 7 HANDLING AND STO	RAGE
Handling Precautions: Keep cont	ainers closed at all times. Avoid creating dust. Keep away from ignition sources.
Storage Requirements Store in a	
Regulatory Requirements:	N/A
Regulatory Requirements: SECTION 8 EXPOSURE CONTRO	
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SECTION 8 EXPOSURE CONTRO Engineering Controls: Ventilation: Administrative Controls: Respiratory Protection: Protective Clothing/Equipment: Safety Stations: Contaminated Equipment:	PERSONAL PROTECTION 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. 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. 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. Make emergency eyewash stations and washing facilities available in work area. Separate contaminated work clothing from street clothes. Launder before re-use. Remove this material from your shoes and clean personal protective equipment.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Water Solubility:	Negligible
Appearance and Odor:	Black, free flowing powder.	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 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 ⁰ C): 1.1	%Volatile:	N/A
pH:	N/A	Evaporation Rate:	N/A

SECTION 10 STABILITY AND REACTIVITY

STABILITY:	N/A
POLYMERIZATION:	N/A
CHEMICAL INCOMPATIBILITIES:	N/A
CONDITIONS TO AVOID:	N/A
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A

SECTION 11 TOXICOLOGICAL INFORMATION

CARCINOGENICITY:

In 1996, the IARC reevaluated carbon black as a GROUP 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated as association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between exposure and tumor developments and rats.

MUTAGENICITY:

AMES test is negative.

CHRONIC EFFECTS:

In a study in rats (H. Muhle) by chronic inhalation exposure to a typical toner, a mold to moderate degree of lung fibrosis was observed in 92% of the rats in the concentration (16 mg/m3) exposure group. And a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m3) exposure group. But no pulmonary changes in the lowest (1 mg/m3) exposure group, the most relevant level to potential human exposures.

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: Follow all applicable federal, state, a	nd local 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	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 INFO	RMATION	
EPA Regulations:		
RCRA Hazardous Waste Number:	Not listed (40 CFR 261.33)	
RCRA Hazardous Waste Classificatio	n: (40 CFR 261): Not classified	
CERCLA Hazardous Substance (40 CF	R 302.4) listed/unlisted specific per RCRA, sec. 3	001;
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 372.6	5): Not listed	
SARA EHS (Extremely Hazardous Su	ostance) (40 CFR 355): No	t listed, Threshold Planning Quantity (TPQ)
OSHA Regulations:		
Air Contaminant (29 CFR 1910.1000	< Table Z-1-A): Particulates not (otherwise regulated.
	states regulations that may specifically list cop	-
		,
SECTION 16 OTHER INFORMATI	ON	
Prepared By:	N/A	
Revision Notes:	N/A	
Additional Hazard Rating System:	N/A	
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