

**MATERIAL SAFETY DATA SHEET**

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

**500 Series Products**

**EMERGENCY TELEPHONE NUMBER 1-(800)-424-9300**

**DATE PREPARED 05/25/05**

**SIGNATURE OF PREPARER (OPTIONAL)**

**SECTION 1 CHEMICAL PRODUCT / NAME**

<b>Product/chemical name:</b>	<b>Panafax UF 890/990</b>	<b>PN#: 500-UG5520</b>
<b>CAS number:</b>	Mixture	
<b>Other designations:</b>	N/A	
<b>General use:</b>	Laser printer	

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Ingredient name:</b>	<b>CAS NUMBER</b>	<b>%</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>OTHER LIMITS</b>
Styrene-Acrylate Copolymer	25036-16-2	<60%			Toner is regulated under OSHA as particulate not otherwise regulated.
Iron Oxide	1317-61-9	<55%	OSHA PEL: 15 mg/m <sup>3</sup>		
Polypropylene	9003-07-0	<5%		5mg/m3 for respirable fraction	
				ACGIH TWA: 10mg/m <sup>3</sup> for nuisance particulate	

NDA = NO DATA AVAILABLE

N/A = NOT APPLICABLE

**SECTION 3 HAZARDOUS IDENTIFICATION**

<b>Primary entry routes:</b>	Inhalation	HMIS
<b>Target organs:</b>	N/A	H 1
<b>Acute effects:</b>	N/A	F 1
<b>Inhalation:</b>	Slight irritation of respiratory tract	R 1
<b>Eye:</b>	Dust may cause irritation by mechanical abrasion	PPE
<b>Skin:</b>	Slight irritation	Sec.8
<b>Ingestion:</b>	None known	
<b>Carcinogenicity:</b>	N/A	
<b>Long-term exposure:</b>	Accumulation of dust in the respiratory system may cause congestion	
<b>Chronic effects:</b>	If these materials are used in a manner that could generate airborne particles (dust), it is recommended that the dust be treated as a NUISANCE PARTICULATE according to the American Conference of Government Industrial Hygienists (ACGIH)(TLV=10mg/m <sup>3</sup> )	

**SECTION 4 FIRST AID MEASURES**

<b>Inhalation:</b>	Remove to fresh air. Treat any irritation symptomatically. Call a physician if condition persists
<b>Eye contact:</b>	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.
<b>Skin contact:</b>	Wash well with soap and running water.
<b>Ingestion:</b>	N/A
<b>Note to physicians:</b>	N/A
<b>Special precautions:</b>	N/A
	<i>After first aid, get appropriate in-plant paramedic or community medical support if serious sign and symptoms persist.</i>

## SECTION 5 FIRE FIGHTING MEASURES

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 hazards:	May form flammable dust-air mixture.
Hazardous combustion products:	Carbon monoxide, carbon dioxide, nitrogen oxide and smoke. Under certain conditions come aliphatic aldehydes and carboxylic acids may form.
Fire-fighting instructions:	Do not release runoff from fire control methods to sewers or waterways.
Fire-fighting instructions:	Wear a self-contained breathing apparatus (SCBA) with full facepiece operated in pressure-demand or positive-pressure mode because fire may produce toxic thermal decomposition products.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill / leak procedures:	N/A
Small spills:	Scoop into container for disposal, suction up remaining material with high efficiency vacuum cleaner.
Large spills:	Scoop into container for disposal, suction up remaining material with high efficiency vacuum cleaner.
Containment:	For large spills, avoid suspending particles, collect for later disposal. Do not release into sewers or waterways.
Cleanup:	No special requirements.
Regulatory requirement:	N/A

## SECTION 7 HANDLING AND STORAGE

Handling precautions:	Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.
Storage requirements:	Store in a cool, dry location.
Regulatory requirement:	N/A

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:	
Ventilation:	Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (sec.2).
Administrative controls:	
Respiratory protection:	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. For emergency or nonroutine operation (cleaning spills, storage tanks), wear a SCBA. <i>Warning! Air-purified respirators do not protect workers in oxygen-deficient atmospheres.</i>
Protective clothing/equipment:	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 (29 CFR 1910.133).
Safety stations:	Make emergency eyewash stations and washing facilities available in work areas.
Contaminated equipment:	Separate contaminated work clothing from street clothes. Launder before reuse.
Comments:	Never eat, drink, or smoke in work areas. Practice good hygiene after using this material, especially before eating, drinking, using the toilet.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state:</b>		<b>Water solubility:</b>	Negligible
<b>Appearance and odor:</b>	Black, free flowing powder, odorless.	<b>Other solutbilites:</b>	N/A
<b>Odor threshold:</b>	N/A	<b>Boiling point:</b>	N/A
<b>Vapor pressure:</b>	N/A	<b>Freezing/melting point:</b>	N/A
<b>Vapor density(air=1):</b>	Heavier than air.	<b>Viscosity:</b>	N/A
<b>Formula weight:</b>	N/A	<b>Refractive index:</b>	N/A
<b>Density:</b>	N/A	<b>Surface tension:</b>	N/A
<b>Specific gravity:</b>	(H <sup>2</sup> O=1 at 4°C): 1.8	<b>%Volatile:</b>	N/A
<b>pH:</b>	N/A	<b>Evaporation rate:</b>	N/A

**SECTION 10 STABILITY AND REACTIVITY**

<b>Stability:</b>	N/A
<b>Polymerization:</b>	N/A
<b>Chemical incompatibilities:</b>	N/A
<b>Conditions to avoid:</b>	N/A
<b>Hazardous decomposition products:</b>	N/A

**SECTION 11 TOXICOLOGICAL INFORMATION**

<b>Eye effects:</b>	N/A
<b>Skin effects:</b>	N/A
<b>Toxicity data:</b>	*
<b>Acute inhalation effects:</b>	N/A
<b>Acute oral effects:</b>	N/A
<b>Chronic effects:</b>	N/A
<b>Carcinogenicity:</b>	N/A
<b>Mutagenicity:</b>	N/A
<b>Teratogenicity:</b>	N/A

\* See NIOSH,RTECS for additional toxicity data

**SECTION 12 ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	N/A
<b>Environmental fate:</b>	N/A
<b>Environmental degradation:</b>	N/A
<b>Soil absorbtion / mobility:</b>	N/A

**SECTION 13 DISPOSAL CONSIDERATIONS**

<b>Disposal:</b>	Waste material may by incinerated or recycled for its iron oxide under conditions which meet all federal, state and local environmental regultions.
<b>Disposal regulatory requirements:</b>	N/A
<b>Container cleaning and disposal:</b>	N/A

**SECTION 14 TRANSPORT INFORMATION****DOT transportation data (49 CFR 172.101):**

<b>Shipping name:</b>	N/A	<b>Packaging authorizations</b>	<b>Quantity limitations</b>
<b>Shipping symbol:</b>	N/A	a) Exceptions: N/A	a) Passenger, aircraft,
<b>Hazard ID no.:</b>	N/A	b) Non-bulk packaging: N/A	or railcar: N/A
<b>ID no.:</b>	N/A	c) Bulk packaging: N/A	
<b>Packing</b>	N/A		<b>Vessel stowage requirements</b>
<b>Label:</b>	N/A		a) Vessel stowage: N/A
<b>Special provisions:</b>	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 (40 CFR 355): Not listed, threshold Planning Quantity (TPQ)  
OSHA regulations: Air contaminant (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.  
All ingredients are listed on the TSCA inventory.

**SECTION 16 OTHER INFORMATION**

Prepared by: N/A  
Revision notes: N/A  
Additional hazard rating system: N/A

**THIS INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.**