

MATERIAL SAFETY DATA SHEET		HP 2100, FX7 OS Toner			
Date of Issue:	01/04/05	May be used to comply with OSHA's Hazard Communication Standard 29CFR 1910.1200			
Authorised by					
SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER					
Product/Material Name:	HP 2100, FX7 OS Toner	Supplier Details:	RTS Imaging Pty Ltd 14 – 24 Cottam Avenue BANKSTOWN NSW 2200 AUSTRALIA		
Other Name(s):					
Recommended Use:	Toner for Laser Printer	Emergency Contact:	Mon – Fri 8.30am-5pm (02) 9793 3900 After Hours 0419 220 020		
The toner is contained within the cartridge which itself is a sealed unit. The toner should never contact the user or the environment when the cartridge is handled in the manner specified.					
SECTION 2 HAZARDS IDENTIFICATION					
Classification:	Non-Hazardous	Physical State:	Particulate / dust		
Overview:	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 ³). This MSDS is supplied to cover eventualities such as mis-use, fire and accidental damage.				
Risk Phrases:	R36/37/38 Irritant to eyes, respiratory system and skin. (Slight –see below).		HMIS H 1 F 1 R 0 PPE Sec.8		
Safety Phrases:	S22 Do not breathe dust S24 Avoid contact with skin S25 Avoid contact with eyes.				
Potential Health Effects:	Refer Section 11, Toxicological Information.				
SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS					
Ingredient Name:	CAS NUMBER	%	OSHA PEL	ACGIH TLV	OTHER LIMITS
Styrene-Acrylate Copolymer	25767-49-9	<55%			
Iron oxide (Black pigment)	12227-89-3	<45%			
Polypropylene	9003-07-0	<3%			
			Toner is regulated under OSHA as particulate not otherwise regulated: OSHA PEL: 15mg/m ³ 5mg/m ³ for respirable fraction ACGIH TWA: 10mg/m³ for nuisance particulate		
SECTION 4 FIRST AID MEASURES					
Inhalation:	Remove to fresh air. Treat any irritation 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:	After first aid, get appropriate in-plant paramedic or community medical support if serious sign and symptoms persist.				
Note to Physicians:	None necessary.				
Special Precautions/Procedures:	None necessary.				
Medical Conditions Aggravated by Long Term Exposure:	Accumulation of dust in the respiratory system may cause congestion.				

SECTION 5 FIRE FIGHTING MEASURES	
<u>Fire and Explosive Properties</u>	
• Flash Point:	The toner is a solid and does not flash.
• Flash Point Method:	Not applicable.
• Burning Rate:	Not combustible.
• Auto Ignition Temperature:	For reasons stated above the auto ignition was not determined.
• LEL:	Not Applicable.
• UEL:	Not Applicable.
• Flammability Classification:	1 Slight (HMIS, NFPA)
• Unusual Fire or Explosion Hazard	May form flammable dust-air mixture.
<u>Extinguishing Media:</u>	Water spray, dry chemical, foam, carbon dioxide, or halon type extinguishers.
<u>Hazardous Combustion Products:</u>	Carbon monoxide, carbon dioxide, nitrogen oxide and smoke Under certain conditions some aliphatic aldehydes and carboxylic acids may form.
<u>Precautions for Fire Fighters & Special protective Equipment</u>	
• 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 RELEASE MEASURES	
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.
Clean Up:	No special requirements.
Regulatory Requirement:	None.
SECTION 7 HANDLING AND STORAGE	
Handling Precautions:	Keep cartridges sealed at all times until ready for use. Keep away from ignition sources.
Storage Requirements:	Store sensibly with other stationery supplies in a dry, cool location.
Regulatory Requirements:	None.
SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION	
Exposure Standards:	Toner is regulated under OSHA as particulate not otherwise regulated. OSHA PEL: 15mg/m ³ for respirable fraction. ACGIH TWA: 10mg/m ³ for nuisance particulate.
Biological Limit Value:	None allocated.
<u>Engineering Controls</u>	
• Ventilation:	Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (as above). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
• Safety Stations:	Make emergency eyewash stations and washing facilities available in work area.
<u>Personal Protective Equipment (PPE)</u>	
• Administrative Controls:	Seek professional advice prior to respirator selection and use.
• Inhalation:	Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear 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 non-routine operation (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air-purified respirators do not protect workers in oxygen-deficient atmospheres.
• Skin:	Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.
• Eye:	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.
• Contaminated Equipment	Separate contaminated work clothing from street clothes. Launder before re-use. Remove this material from your shoes and clean personal protective equipment.
• Additional Remarks	Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking using the toilet, or applying cosmetics.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES		
Appearance and Odour:	Black, free flowing powder, odourless.	
Odour Threshold:	Not Applicable	
Vapour Pressure:	Not Applicable	
Vapour Density (Air=1):	Heavier than air.	
Formula Weight:	Mixture.	
Density:	Not Applicable	
Specific Gravity:	1.5-1.6	
pH:	Not Applicable	
Water Solubility:	Negligible	
Boiling Point:	Not Applicable	
Freezing/Melting Point:	110°C	
Viscosity:	Not Applicable	
Refractive Index:	Not Applicable	
Surface Tension:	Not Applicable	
%Volatile:	Nil	
Evaporation Rate:	Not Applicable	
SECTION 10 STABILITY AND REACTIVITY		
Stability:	This material is an extremely stable mixture of compatible solids.	
Polymerisation:	Not possible.	
Chemical Incompatibilities:	None.	
Conditions to Avoid:	None	
Hazardous Decomposition Products:	Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen.	
Hazardous Reactions:	None.	
SECTION 11 TOXICOLOGICAL INFORMATION		
Primary Entry Route:	Inhalation	
Acute/Chronic Effects:	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 ³).	
Inhalation:	Slight irritation of respiratory tract.	
Eye:	Dust may cause irritation by mechanical abrasion.	
Skin:	Very slight irritation.	
Ingestion:	None known.	
Carcinogenicity:	This material is not considered a carcinogen and is not regulated by OSHA.	
Long Term Exposure:	Accumulation of dust in the respiratory system may cause congestion.	
Toxicity Data:	See NIOSH, RTECS for additional toxicity data.	
SECTION 12 ECOLOGICAL INFORMATION		
Ecotoxicity:	None	
Persistence/ Degradation:	The components of the toner are biodegradable and/or natural to the environment and therefore only minimal degradation is possible.	
Soil Absorption/Mobility:	Soil absorption takes place quickly as almost 50% of the toner composition is Iron Oxide. There is no prospect of leaching to water table in concentrations considered dangerous.	
SECTION 13 DISPOSAL CONSIDERATIONS		
Disposal/ Recycling:	Waste material may be incinerated or recycled for its Iron Oxide under conditions that meet all federal, state and local environmental regulations.	
Containers:	Toner cartridges are recyclable when empty. Any residual toner is reclaimed at the time of re-filling.	
Special Precautions for Landfill or Incineration	Refer " Hazardous Combustion Products", Section 5.	
SECTION 14 TRANSPORT INFORMATION		
UN Number:	None allocated	Quantity Limitations:
UN Shipping Name:	None allocated	a. Passenger, Aircraft or Railcar: Not Applicable
Class & Subsidiary Risks:	Not Applicable	
Packing Group:	Not Applicable	Vessel Stowage Requirements:
Label:	Not Applicable	a. Vessel stowage: Not Applicable
Special Precautions:	Not Applicable	Other: Not Applicable
Hazchem Code:	None allocated	
Packaging Authorisations:	a. Exceptions: Not Applicable	
	b. Non-bulk packaging: Not Applicable.	
	Bulk Packaging: Not Applicable	

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: Not Applicable
 SARA Toxic Chemical (40 CFR 372.65) Not listed
 SARA EHS (Extremely Hazardous Substance) (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 State regulations that may specifically list copy machine toner. All Ingredients are listed on the TSCA inventory

SECTION 16 OTHER INFORMATION

Prepared/Revised By: Gordon Cole, Independent Ink Technologies Pty Ltd (IIT)

Revision Notes: Original document by Wayne P Johnstone (IIT), 29/03/2001. Document revised to address requirements of "National Code of Practice for the Preparation of Material Safety Data Sheets, 2nd Ed {NOHSC:2011(2003)}", April 2003.

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