

Material Safety Data Sheet		Revision Date: December 12, 2012
Product:	MICR Toner Kit	
1. Chemical Product and Company Identification		
PRINTRONIX®		Model L7032
Printronix Part Number:	251742-001	
Printronix Nederland BV, Subsidiary of Printronix Inc Bijsterhuizen 11-38 6546 AS Nijmegen The Netherlands Tel. (31) 24 6489489 Fax (31)24 6489499		Printronix, Inc. 15345 Barranca Pkwy Irvine, CA 92618 Tel. (714) 368-2300 Fax (714) 368-2600
2. Composition / Information on Ingredients		
Chemical Identity	CAS Number	Contents %
Carbon Black	1333-86-4	<15
Polyester Resin	265328-64-1	55-70
Iron Oxide	1317-61-9	15-30
Ethylene Propylene Copolymer Resin	9010-79-1	3-7
Lithium Stearate	4485-12-5	1-3
Silicon Compound	68909-20-6	0.3-2.0
Pigment	31714-550-3	1-3
3. Hazards Identification		
EMERGENCY OVERVIEW	Keep unnecessary people away and upwind of a fire. This product may represent an explosion hazard from dust present. Remove all sources of ignition. Toxic gasses may be emitted when heated to decomposition. Follow Section 5 for firefighting measures and Section 6 for accidental release measures. In case of contact with this material, immediately flush eyes with running water for at least 15 minutes.	
A. Acute Exposure Effects (Note Pertains to Finished Product)		
Eye Contact	Toner and developer dust may cause a mechanical irritation to the eye, but amounts to not more than a mild irritant without injury to the eye.	
Skin Contact	Dermal tests indicate that it is not absorbed through this route, and therefore does not act as a skin irritant.	
Inhalation	Under dusty conditions, dust may accumulate in the nose and throat and cause temporary irritation and physical discomfort.	
Ingestion	Accidental ingestion of toner or developer may cause nausea and lethargy, but is not toxic.	
B. Chronic Health Effects (Note: Pertains to each ingredient listed in section 2 per 29 CFR set. 1910.1200)		
Carbon Black	The International Agency for Research on Cancer (IARC), on April 12, 1996, published "Monograph Volume 65," which reclassifies carbon black from Category 3 to Category 2B (Known animal carcinogen, possible human carcinogen). This change was based on the results of rat inhalation studies of carbon black, despite the lack of any parallel evidence in humans or other animal species. (In spite of this recent research, no Immediate Danger to Life or Health (IDLH) level has been established. However, based on animal studies, excessively dusty conditions should be avoided over the long term.	
Carcinogenicity Listing	NTP-No IARC – No. OSHA - No	

4. First Aid Measures	
Eye contact	Immediately flush with plenty of running water. Obtain medical attention.
Ingestion	Give the victim plenty of water to drink and obtain immediate medical attention.
Inhalation	If over-exposure occurs where the victim experiences nausea, headache, or dizziness, the person should be moved to fresh air until these symptoms disappear. If no improvement, call a physician.
Skin Contact	Washing affected areas promptly with water is a good safety practice. This product is not a skin irritant.

5. Fire Fighting Measures	
Flash point	Non-flammable
Fire & Explosion Hazards	Combustible dust
Extinguishing Media	Water Mist, Dry Chemical, Carbon Dioxide
Special Fire Fighting Procedures	Containers should be kept cool with water spray. To avoid inhalation of toxic fumes, wear MSHA/NIOSH approved self-contained breathing apparatus.
Unusual Fire & Explosion Hazards	This material, like most organic materials in powder form, is capable of causing a dust explosion due to static build-up and producing toxic fumes such as carbon monoxide and CO ₂ .

6. Accidental Release Measures	
Note: Review Sections 4 & 8 before proceeding with clean up	
Spill or Leak Procedures	Cut off all sources of ignition. Sweep up or vacuum spilled toner or developer and carefully transfer into a sealed waste container. Sweep slowly to minimize generation of dust during clean up. If a vacuum is used, the motor must be rated as dust tight. A conductive hose bonded to the machine should be used to reduce static build-up (see Section 4). Residue can be removed with soap and water. Garments may be washed or dry cleaned after removal of loose toner or developer. (See section 13 for waste disposal)

7. Handling and Storage	
Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children.
Storage	Store in a well-ventilated area. Keep storage container tightly closed and keep away from heat, sparks, and open flame. Do not store with incompatible materials (see Section 10). Do not store or consume food, drink, or tobacco in an area where they may become contaminated with this material. Store at temperatures above 35° C (95° F). Shelf life limitations – 1 year. In Canada, all outside containers must be labeled as a WHMIS Class D2A controlled substance.

8. Exposure Controls / Personal Protection	
For Office Equipment	No personal protection equipment is suggested.
For Bulk Handling	
Respiratory Protection	None needed with working mixtures and normal room ventilation (10 changes of air per hour). If significant dusting occurs, wear a NIOSH/MSHA approved dust respirator.
Ventilation	Normal room ventilation is sufficient. Avoid use of product in unventilated areas. Always control airborne levels to below exposure guidelines when reported in Section 2 (use 50% of the TLV).
Skin & Eye Protection	Splash protection is required for eyes, e.g., eyeglasses with side shields or goggles. Chemical gloves and aprons are not necessary if the product is used as intended.

9. Physical and Chemical Properties	
Boiling Point	Not Applicable
Melting Point	80 - 100° C (176 – 212 F°)
Bulk Density	0.5 – 0.8 g/cc packed
Vapor Pressure @ 25° C	Not Applicable
Vapor Density (AIR = 1)	Not Applicable
Evaporation Rate (Butyl Acetate = 1)	Not Applicable
Volatile Fraction % by Weight	<0.5
Solubility in Water (by Weight %)	Negligible
Specific Gravity (H₂O = 1)	<1.5
pH @ 25° C	Not Applicable
Appearance	Fine Black Powder
Odor	Slight

10. Stability and Reactivity	
Stability	Stable
Conditions to Avoid	Flame or excessive heat in case of high airborne concentrations of dust
Incompatibility	Strong oxidizers
Hazardous Decomposition Products	May emit toxic CO ₂ fumes and CO if heated to high temperature
Hazardous Polymerization	Will not occur

11. Toxicological Information	
<p>In addition to the health effects reported in Section 3 B, from a toxicity standpoint, the Carbon Black industry is reviewing opportunities for research to significantly increase their knowledge of lung tumor formation in rats and to develop credible evidence that the response mechanism in the rat does not apply to other species, particularly humans. In addition, the industry must stay abreast of potential changes in regulatory reporting requirements and the standards of exposure to work place dust levels (TLVs and OSHA PELs).</p>	
<p>Based on the laboratory evidence available, the Carbon Black industry believes that Carbon Black is not a carcinogen to humans. Furthermore, researchers believe that the health effects reported result from massive accumulation of small dust particles in the lung to cause the "lung overload" phenomenon rather than from a specific chemical effect from the dust particles in the lung.</p>	

12. Ecological Information	
General	This chemical formulation has not been tested for environmental effects. Although, in a spill condition, this formulation may be aesthetically unpleasant, it is water insoluble, and is not expected to show any adverse environmental effects

13. Disposal Considerations	
Waste Disposal	According to Federal Regulation 40 CFR 261, this material is not a hazardous waste when discarded. However, State and Local requirements may be more restrictive. Therefore, consultation with the proper State and Local authorities is advised. Incineration is recommended but only in a closed container.

14. Transport Information	
DOT, IMO, IATA/ICAO, Transport Canada – not regulated	
In the United States: All outside containers must be marked according to OSHA Right-to-Know regulations 29 CFR, 1910.1200 as follows: CARBON BLACK HEALTH EFFECT – Dust Inhalation.	
In Canada: Must be labeled under WHMIS as a D2A controlled Substance.	
NFPA Hazard Rating	
Health	1
Flammability	0
Reactivity	0

Special	None
Where	4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = None

15. Regulatory Information

US FEDERAL REGULATIONS:	
OSHA Hazard Communication Rule, 29 CFR 1910.1200	Carbon Black
TSCA	All ingredients in this finished product are listed on the EPA TSCA inventory (see Section 2)
CERLA HAZARDOUS SUBSTANCE REPORTABLE QUANTITY (40 CFR 302)	None
SARA Title III	Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 as follows: Section 302 Extremely Hazardous Substances: None Section 311/312 Hazardous Categories: None Section 313 Toxic Chemicals: Components present are at a level too low to be reported.
SARA Hazardous Categories	Immediate and Delayed (see Section 3A, Acute and Chronic Health Effects).
Clean Air Act of 1990	This material does not contain nor was it manufactured using ozone depleting chemicals.
INTERNATIONAL REGULATIONS:	
Canadian Domestic Substances List	Carbon Black listed
WHMIS (Canada)	Carbon Black classified as a D2A controlled substance
EINECS No	Carbon Black 215-609-9

16. Other Information

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