

Material Safety Data Sheet		Revision Date: October 17, 2007
Product:	Toner Kit	
1. Chemical Product and Company Identification		
PRINTRONIX®		Model L7032
Printronix Part Number:	251749-001	
Printronix Nederland BV, Subsidiary of Printronix Inc. Nieuweweg 283, P.O. Box 163 6600 AD Wijchen, The Netherlands Tel. (31) 24 6489489 Fax (31) 24 6489499		Printronix, Inc. P.O. Box 19559 Irvine, CA 92623-9559 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	Confidential	50-80
Styrene-acrylic Resin	Confidential	10-40
Wax	8015-86-9	<5
Dye	Confidential	<5
3. Hazards Identification		
Adverse human Health Effects	NA in normal use	
Carcinogenicity	Carbon Black was reclassified as a Group 2B component by IARC in 1996 based upon the result of only the inhalation study in rats. However, there was no observation of any incidence of tumors on the test results of dermal or oral studies. Also, a 2-year inhalation study using a typical toner containing carbon black showed no association between toner exposure and animal tumors.	
Environmental Effects	NA in normal use	
Physical and Chemical Hazards	NA in normal use	
Classification of the Chemical Product	NA in normal use	
4. First Aid Measures		
Eye contact	Flush eye(s) with water. If unsuccessful, seek medical treatment.	
Ingestion	Dilute stomach contents with several glasses of water. If unsuccessful, seek medical treatment.	
Inhalation	Gargle with water, move patient from developer dust exposure to fresh air. If unsuccessful, seek medical treatment.	
Skin Contact	Wash thoroughly with soap and water.	

5. Fire Fighting Measures	
Extinguishing Media	Water, Foam, CO ₂ or dry chemicals
Fire Fighting Instructions	Use self-contained breathing apparatus and gear in case of burning in large quantities.
Unusual Fire and Explosion Hazards	None under normal storage and use conditions.
6. Accidental Release Measures	
Personal Precautions	No special precautions required. Minimize inhalation of dust.
Environmental precautions	No special precautions required. Keep product out of sewers and watercourses.
Clean-up Procedure	Clean up with a vacuum cleaner (rated for toner use)
7. Handling and Storage	
Handling	Avoid inhalation, ingestion, skin or eye contact. Keep away from children.
Storage	Store in a cool, dry and dark place. Keep temperature <35° C (95° F) Avoid direct sunlight. Keep out of reach of children.
8. Exposure Controls / Personal Protection	
Exposure Guidelines	See Section 3
9. Physical and Chemical Properties	
Appearance	Fine black powder.
Odor	Slightly plastic odor.
Decomposition Temperature	No data available
Explosive Properties	This product is considered a non-explosive material under normal use.
Density/Specific Gravity	1.2 (H ₂ O = 1) at 25° C (76° F)
Water Solubility	Insoluble
10. Stability and Reactivity	
Stability	Stable
Hazardous Decomposition Products	None
Hazardous Polymerization	Will not occur.
11. Toxicological Information	
Acute Oral Toxicity	≥ 5,000 mg/kg (Rat)
Acute Dermal Toxicity	NA
Acute Inhalation Toxicity	NA
Acute Eye Irritation	NA
Acute Skin Irritation	Non-irritant
Acute Allergenic Effects	0%
Carcinogenicity	See Section 3
Mutagenicity	Negative (Ames test)
Effects on the Reproductive System	No data is available on this product
Teratogenicity	No data available
Chronic Effects	In a study of rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16 mg/mm ³) exposure group and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4 mg/mm ³) exposure group. But no pulmonary change was reported in the lowest (1 mg/mm ³) exposure group, the most relevant level to potential human exposure.

12. Ecological Information

Persistence Degradability	No data available
Bioaccumulation	No data available
Ecotoxicity	No data available

13. Disposal Considerations

Disposal Instructions	Dispose of toner in an environmentally appropriate manner and in accordance with local, state and federal regulations. Do not incinerate toner or toner containers. Sparks may cause burns.
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14. Transport Information

Specific Precautionary Transport Measures	Do not expose toner to temperatures over 35° C (95° F). Avoid direct sunlight.
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15. Regulatory Information

Regulations	None.
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16. Other Information

Additional Information	<p>IARC (1996) "IARC Monograph on the evaluation of the Carcinogenic Risk of Chemicals to Humans," Vol. 65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp. 149-261.</p> <p>H. Muhle, B. Bellman, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J. C. MacKenzie, P. Morrow, U. Mohr, S. Tanaka and R. Mermelstein (1991), "Pulmonary Response to Toner upon Chronic Inhalation Exposure to Rats," Fundamental and Applied Toxicology, Vol. 17. 280-299.</p>
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