

| Material Safety Data Sheet | | Revision Date: October 17, 2007 |
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| Product: | Developer Unit | |
| 1. Chemical Product and Company Identification | | |
| PRINTRONIX® | | Model L7032 |
| Printronix Part Number: | 251746-001 | |
| 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 Box19559 Irvine, CA 92623-9559 Tel. (714) 368-2300 Fax (714) 368-2600 |
| 2. Composition / Information on Ingredients | | |
| Chemical Identity | CAS Number | Contents % |
| Iron Oxide | 1317-61-9 | 97 |
| Carbon Black | 1333-86-4 | 2 |
| Polyester Resin | Confidential | <1 |
| Styrene-acrylic Resin | Confidential | <1 |
| Wax | 8015-86-9 | <1 |
| Dye | Confidential | <1 |
| 3. Hazards Identification | | |
| Emergency Overview | Not intended for ingestion. Not applicable in normal use. Prolonged inhalation of excessive developer dust may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive developer dust. Developer dust may cause eye irritation. Developer dust is unlikely to cause skin irritation. | |
| Hazardous Components | 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. | |
| 4. First Aid Measures | | |
| Eye contact | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists. | |
| Ingestion | If material is swallowed, dilute stomach contents with several glasses of water and seek medical attention. | |
| Inhalation | Remove patient from developer dust exposure to fresh air. | |
| Skin Contact | Wash thoroughly with soap and cool water. | |

| 5. Fire Fighting Measures | |
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| 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 | |
| Clean-up Procedure | Clean up with a vacuum cleaner (rated for developer 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 out of reach of children. |
| 8. Exposure Controls / Personal Protection | |
| Carbon Black | See Section 3 |
| 9. Physical and Chemical Properties | |
| Physical State | 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 | 4.7 (H ₂ O = 1) at 25° Cm (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 |
| 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. |
| Others | None |

| 12. Ecological Information | |
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| Persistence Degradability | No data available |
| Bioaccumulation | No data available |
| Ecotoxicity | No data available |
| 13. Disposal Considerations | |
| Disposal Instructions | Dispose of in an environmentally appropriate manner and in accordance with local, state and federal regulations. Do not incinerate developer or developer containers. Sparks may cause burns. |
| 14. Transport Information | |
| Specific Precautionary Transport Measures | Do not expose toner to temperatures over 35° C (95° F). Avoid direct sunlight. |
| 15. Regulatory Information | |
| Regulations | None. |
| 16. Other Information | |
| Additional Information | 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. 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. |