| Material Safety  | Data Sheet   | Revis  | ion Date: October                   | 17, 2007  |
|--|--|--|-------------------------------------|---|
|  | artridge   |  |                                     |   |
| 1. Chemical Product and  | Company Ident  | tification   |                                     |   |
| PRINTRON   | K®   |  | lel L7032                           |   |
| Printronix Part<br>Number: 251748-00 <sup>-</sup>  | 1  | 1  |                                     |   |
| Printronix Nederland BV, Subsidiary of Printronix Inc.<br>Nieuweweg 283, P.O. Box 163<br>6600 AD Wijchen, The Netherlands<br>Tel. (31) 24 6489489<br>Fax (31) 24 6489499   |  | Printronix, Inc.<br>P.O Box19559<br>Irvine, CA 92623-9559<br>Tel. (714) 368-2300<br>Fax (714) 368-2600   |                                     |   |
|  |  |  |                                     |   |
| 2. Composition / Information   |  |  |                                     |   |
| Chemical Identity Aluminum   | CAS Number<br>7429-90-5  | Weight %<br>99.3   | OSHA PEL<br>15 mg/mm <sup>3</sup>   | ACGIH TLV<br>10mg/mm <sup>3</sup> (TWA)*        |
| Binder Resin   | 7429-90-5<br>NA  | 99.3<br><1.0   | Not Listed                          | Not Listed                                      |
| Charge Carrier Transport Mtl   | NA   | <1.0   | Not Listed                          | Not Listed                                      |
| Additive   | NA   | <1.0   | Not Listed                          | Not Listed                                      |
| *Listed not as aluminum tube   | but as aluminum d  | ust  |                                     |   |
| 3. Hazards Identification  |  |  |                                     |   |
| Eye contact  | NA in normal use   |  |                                     |   |
| Ingestion  | NA in normal use   |  |                                     |   |
| Inhalation   | NA in normal use   |  |                                     |   |
| Skin Contact   | NA in normal use   | ;  |                                     |   |
| 4. First Aid Measures  |  |  |                                     |   |
| · - · · ·  |  |  |                                     |   |
| Eye contact  | NA in normal use   |  |                                     |   |
| Ingestion  | NA in normal use   | 9  |                                     |   |
|  |  | )<br>)   |                                     |   |
| Ingestion<br>Inhalation<br>Skin Contact  | NA in normal use<br>NA in normal use<br>NA in normal use   | )<br>)   |                                     |   |
| Ingestion<br>Inhalation<br>Skin Contact<br>5. Fire Fighting Measures   | NA in normal use<br>NA in normal use<br>NA in normal use<br>S  | 9<br>9<br>9  |                                     |   |
| Ingestion<br>Inhalation<br>Skin Contact  | NA in normal use<br>NA in normal use<br>NA in normal use<br>S<br>CO <sub>2</sub> , Dry chemic  | e<br>e<br>e<br>als   | pparatus and full p                 | protection against dust                         |
| Ingestion<br>Inhalation<br>Skin Contact<br>5. Fire Fighting Measures<br>Extinguishing Media<br>Fire Fighting Instructions  | NA in normal use<br>NA in normal use<br>NA in normal use<br>CO <sub>2</sub> , Dry chemic<br>Use self-containe  | e<br>e<br>als<br>ed breathing a<br>rge quantity of   |                                     | protection against dust<br>fumes or vapors at a |
| Ingestion<br>Inhalation<br>Skin Contact<br>5. Fire Fighting Measures<br>Extinguishing Media  | NA in normal use<br>NA in normal use<br>NA in normal use<br>CO <sub>2</sub> , Dry chemic<br>Use self-containe<br>and fumes if a la<br>high temperature   | als<br>ed breathing a<br>rge quantity of<br>o.   |                                     |   |
| Ingestion<br>Inhalation<br>Skin Contact<br>5. Fire Fighting Measures<br>Extinguishing Media<br>Fire Fighting Instructions<br>Unusual Fire and  | NA in normal use<br>NA in normal use<br>NA in normal use<br>CO <sub>2</sub> , Dry chemic<br>Use self-containe<br>and fumes if a lai<br>high temperature<br>None under norm   | als<br>ed breathing a<br>rge quantity of<br>o.   | drums produces                      |   |
| Ingestion<br>Inhalation<br>Skin Contact<br>5. Fire Fighting Measures<br>Extinguishing Media<br>Fire Fighting Instructions<br>Unusual Fire and<br>Explosion Hazards   | NA in normal use<br>NA in normal use<br>NA in normal use<br>CO <sub>2</sub> , Dry chemic<br>Use self-containe<br>and fumes if a la<br>high temperature<br>None under norm<br>Casures<br>No special preca   | als<br>ed breathing a<br>rge quantity of<br>a.<br>nal storage an<br>utions.                              | drums produces                      |   |
| Ingestion<br>Inhalation<br>Skin Contact<br>5. Fire Fighting Measures<br>Extinguishing Media<br>Fire Fighting Instructions<br>Unusual Fire and<br>Explosion Hazards<br>6. Accidental Release Me<br>Personal Precautions<br>Environmental precautions  | NA in normal use<br>NA in normal use<br>NA in normal use<br>CO <sub>2</sub> , Dry chemic<br>Use self-containe<br>and fumes if a la<br>high temperature<br>None under norm<br>Casures<br>No special preca   | als<br>als<br>ed breathing a<br>rge quantity of<br>a.<br>nal storage and<br>utions.                      | drums produces                      |   |
| Ingestion<br>Inhalation<br>Skin Contact<br>5. Fire Fighting Measures<br>Extinguishing Media<br>Fire Fighting Instructions<br>Unusual Fire and<br>Explosion Hazards<br>6. Accidental Release Me<br>Personal Precautions   | NA in normal use<br>NA in normal use<br>NA in normal use<br>CO <sub>2</sub> , Dry chemic<br>Use self-containe<br>and fumes if a la<br>high temperature<br>None under norm<br>Casures<br>No special preca   | als<br>als<br>ed breathing a<br>rge quantity of<br>a.<br>nal storage and<br>utions.                      | drums produces                      |   |
| Ingestion<br>Inhalation<br>Skin Contact<br>5. Fire Fighting Measures<br>Extinguishing Media<br>Fire Fighting Instructions<br>Unusual Fire and<br>Explosion Hazards<br>6. Accidental Release Me<br>Personal Precautions<br>Environmental precautions<br>Clean-up Procedure<br>7. Handling and Storage | NA in normal use<br>NA in normal use<br>NA in normal use<br>CO <sub>2</sub> , Dry chemic<br>Use self-containe<br>and fumes if a la<br>high temperature<br>None under norm<br>Casures<br>No special preca   | als<br>als<br>ed breathing a<br>rge quantity of<br>a.<br>nal storage and<br>utions.                      | drums produces                      |   |
| Ingestion<br>Inhalation<br>Skin Contact<br>5. Fire Fighting Measures<br>Extinguishing Media<br>Fire Fighting Instructions<br>Unusual Fire and<br>Explosion Hazards<br>6. Accidental Release Me<br>Personal Precautions<br>Environmental precautions<br>Clean-up Procedure                            | NA in normal use<br>NA in normal use<br>NA in normal use<br>NA in normal use<br>CO <sub>2</sub> , Dry chemic<br>Use self-containe<br>and fumes if a la<br>high temperature<br>None under norm<br>easures<br>No special preca<br>No special preca | als<br>als<br>ad breathing a<br>rge quantity of<br>a<br>nal storage and<br>utions.<br>utions.<br>utions. | drums produces<br>d use conditions. |   |

| 8. Exposure Controls / P  | ersonal Protection  |  |  |
|---|---|--|--|
| Exposure Guidelines   | None required under normal use.   |  |  |
| 9. Physical and Chemica   | Properties  |  |  |
| Appearance  | Light green cylinder.   |  |  |
| Odor  | Odorless.   |  |  |
| Boiling Point   | No data available   |  |  |
| Melting Point   | No data available   |  |  |
| Decomposition   | No. Jacobia - Malla   |  |  |
| Temperature   | No data available   |  |  |
| Flash Point   | No data available   |  |  |
| Autoignition Temperature  | No data available   |  |  |
| Density/Specific Gravity  | $2.7 (H_2O = 1)$  |  |  |
| Water Solubility  | Negligible  |  |  |
| Fat Solubility  | No data available   |  |  |
| Partition Coefficient (n-   | No data available   |  |  |
| Octanol/Water)  |   |  |  |
| Percent Volatile  | No data available   |  |  |
| Evaporation Rate  | No data available   |  |  |
| 10. Stability and Reactivity  |   |  |  |
| Stability   | Stable  |  |  |
| Materials to Avoid  | Strong oxidizers and organic solvents   |  |  |
| Hazardous   |   |  |  |
| Decomposition Products  | None  |  |  |
| Hazardous Polymerization  | Will not occur.   |  |  |
| 11. Toxicological Information   |   |  |  |
| Acute Oral Toxicity   | No data available   |  |  |
| Acute Dermal Toxicity   | No data available   |  |  |
| Acute Inhalation Toxicity   | No data available   |  |  |
| Acute Skin Irritation   | No data available   |  |  |
| Skin Sensitization  |   |  |  |
|   | No data available   |  |  |
|   |   |  |  |
| Mutagenicity<br>Reproductive Toxicity   | Negative in Ames test (coating material)<br>No reproductive toxicity, according to MAK, Proposition 65, TRGS905   |  |  |
| Mutagenicity<br>Reproductive Toxicity   | Negative in Ames test (coating material)<br>No reproductive toxicity, according to MAK, Proposition 65, TRGS905<br>and EU Directive.  |  |  |
| Mutagenicity  | Negative in Ames test (coating material)<br>No reproductive toxicity, according to MAK, Proposition 65, TRGS905<br>and EU Directive.<br>Not a carcinogen or potential carcinogen, according to IARC, Japan  |  |  |
| Mutagenicity<br>Reproductive Toxicity   | Negative in Ames test (coating material)<br>No reproductive toxicity, according to MAK, Proposition 65, TRGS905<br>and EU Directive.<br>Not a carcinogen or potential carcinogen, according to IARC, Japan<br>Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,  |  |  |
| Mutagenicity<br>Reproductive Toxicity<br>Carcinogenicity  | Negative in Ames test (coating material)<br>No reproductive toxicity, according to MAK, Proposition 65, TRGS905<br>and EU Directive.<br>Not a carcinogen or potential carcinogen, according to IARC, Japan<br>Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,<br>Proposition 65, TRGS905 and EU Directive  |  |  |
| Mutagenicity<br>Reproductive Toxicity<br>Carcinogenicity<br>12. Ecological Information  | Negative in Ames test (coating material)<br>No reproductive toxicity, according to MAK, Proposition 65, TRGS905<br>and EU Directive.<br>Not a carcinogen or potential carcinogen, according to IARC, Japan<br>Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,<br>Proposition 65, TRGS905 and EU Directive  |  |  |
| Mutagenicity         Reproductive Toxicity         Carcinogenicity         12. Ecological Information         Mobility  | Negative in Ames test (coating material)<br>No reproductive toxicity, according to MAK, Proposition 65, TRGS905<br>and EU Directive.<br>Not a carcinogen or potential carcinogen, according to IARC, Japan<br>Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,<br>Proposition 65, TRGS905 and EU Directive<br>No data available   |  |  |
| Mutagenicity         Reproductive Toxicity         Carcinogenicity         12. Ecological Information         Mobility         Persistence Degradability  | Negative in Ames test (coating material)         No reproductive toxicity, according to MAK, Proposition 65, TRGS905         and EU Directive.         Not a carcinogen or potential carcinogen, according to IARC, Japan         Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,         Proposition 65, TRGS905 and EU Directive         No         No data available         No data available  |  |  |
| Mutagenicity         Reproductive Toxicity         Carcinogenicity         12. Ecological Information         Mobility         Persistence Degradability         Bioaccumalation  | Negative in Ames test (coating material)         No reproductive toxicity, according to MAK, Proposition 65, TRGS905         and EU Directive.         Not a carcinogen or potential carcinogen, according to IARC, Japan         Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,         Proposition 65, TRGS905 and EU Directive         No         No data available         No data available         No data available  |  |  |
| Mutagenicity         Reproductive Toxicity         Carcinogenicity         12. Ecological Information         Mobility         Persistence Degradability         Bioaccumalation         Ecotoxicity  | Negative in Ames test (coating material)         No reproductive toxicity, according to MAK, Proposition 65, TRGS905         and EU Directive.         Not a carcinogen or potential carcinogen, according to IARC, Japan         Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,         Proposition 65, TRGS905 and EU Directive         No         No data available  |  |  |
| Mutagenicity         Reproductive Toxicity         Carcinogenicity         12. Ecological Information         Mobility         Persistence Degradability         Bioaccumalation  | Negative in Ames test (coating material)         No reproductive toxicity, according to MAK, Proposition 65, TRGS905         and EU Directive.         Not a carcinogen or potential carcinogen, according to IARC, Japan         Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,         Proposition 65, TRGS905 and EU Directive         No         No data available         No data available         No data available  |  |  |
| Mutagenicity         Reproductive Toxicity         Carcinogenicity         12. Ecological Information         Mobility         Persistence Degradability         Bioaccumalation         Ecotoxicity         Other Adverse Effects  | Negative in Ames test (coating material)         No reproductive toxicity, according to MAK, Proposition 65, TRGS905         and EU Directive.         Not a carcinogen or potential carcinogen, according to IARC, Japan         Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,         Proposition 65, TRGS905 and EU Directive         No         No data available  |  |  |
| Mutagenicity         Reproductive Toxicity         Carcinogenicity         12. Ecological Information         Mobility         Persistence Degradability         Bioaccumalation         Ecotoxicity  | Negative in Ames test (coating material)         No reproductive toxicity, according to MAK, Proposition 65, TRGS905         and EU Directive.         Not a carcinogen or potential carcinogen, according to IARC, Japan         Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,         Proposition 65, TRGS905 and EU Directive         No         No data available  |  |  |
| Mutagenicity         Reproductive Toxicity         Carcinogenicity         12. Ecological Information         Mobility         Persistence Degradability         Bioaccumalation         Ecotoxicity         Other Adverse Effects         13. Disposal Consideration                             | Negative in Ames test (coating material)         No reproductive toxicity, according to MAK, Proposition 65, TRGS905         and EU Directive.         Not a carcinogen or potential carcinogen, according to IARC, Japan         Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,         Proposition 65, TRGS905 and EU Directive         N         No data available   |  |  |
| Mutagenicity         Reproductive Toxicity         Carcinogenicity         12. Ecological Information         Mobility         Persistence Degradability         Bioaccumalation         Ecotoxicity         Other Adverse Effects         13. Disposal Considerate         Disposal Instructions | Negative in Ames test (coating material)         No reproductive toxicity, according to MAK, Proposition 65, TRGS905         and EU Directive.         Not a carcinogen or potential carcinogen, according to IARC, Japan         Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,         Proposition 65, TRGS905 and EU Directive         No         No data available         OPC cartridge may be disposed as waste aluminum in accordance with l |  |  |
| MutagenicityReproductive ToxicityCarcinogenicity12. Ecological InformationMobilityPersistence DegradabilityBioaccumalationEcotoxicityOther Adverse Effects13. Disposal ConsiderateDisposal Instructions14. Transport Information  | Negative in Ames test (coating material)         No reproductive toxicity, according to MAK, Proposition 65, TRGS905<br>and EU Directive.         Not a carcinogen or potential carcinogen, according to IARC, Japan<br>Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,<br>Proposition 65, TRGS905 and EU Directive         No         No data available   |  |  |
| Mutagenicity         Reproductive Toxicity         Carcinogenicity         12. Ecological Information         Mobility         Persistence Degradability         Bioaccumalation         Ecotoxicity         Other Adverse Effects         13. Disposal Considerate         Disposal Instructions | Negative in Ames test (coating material)         No reproductive toxicity, according to MAK, Proposition 65, TRGS905         and EU Directive.         Not a carcinogen or potential carcinogen, according to IARC, Japan         Association on Industrial Health, ACGIH, EPA, OSHA, NTP, ILO, MAK,         Proposition 65, TRGS905 and EU Directive         No         No data available         OPC cartridge may be disposed as waste aluminum in accordance with l |  |  |

| 15. Regulatory Information   |              |  |
|--|--------------|--|
| Label information is according to the Directives 1999/45/EEC and 67/548/EEC (EU) |              |  |
| Symbol and indication  | Not required |  |
| R-Phrase   | Not required |  |
| S-Phrase   | Not required |  |
| Dangerous Component(s)   | None         |  |
| Other  | None         |  |

## 16. Other Information

To the best of our knowledge, the information contained herein is accurate.

However, we cannot assume any liability whatever for the accuracy or completeness of the information contained herein.