

## Material Safety Data Sheet

|  |               |  |                   |
|--|---------------|--|-------------------|
| <b>IDENTITY</b>  |               |  |                   |
| <b>THERMAL TRANSFER FILM RIBBON (HT8+)</b>   |               |  |                   |
| <b>SECTION 1</b>   |               |  |                   |
| <u>Manufacturers Name</u><br>DYNIC CORPORATION   |               | <u>Emergency Telephone Number</u><br>(029) 2048 3973       |                   |
| <u>Address</u><br>Units 40-42 Portmanmoor Road Ind.<br>Est. East Moors, Cardiff              |               | <u>Telephone Number for Information</u><br>(029) 2048 3973 |                   |
| <u>Signature of Prepared</u><br>G.Williams   |               | <u>Date Prepared</u><br>23 <sup>th</sup> Oct 2003          |                   |
| <b>SECTION 2 – Hazardous Ingredients/ Identity Information</b>                               |               |  |                   |
| <u>Hazardous Components</u>  |               | <u>OSHA PEL</u> <u>AVGIH TLV</u> <u>Other Limits</u>       |                   |
| <u>Ingredients</u>   | <u>Cas-No</u> |  |                   |
| Polyester Film   | 25038-59-9    |  |                   |
| Silicon Copolymer Resin  | Registered    |  |                   |
| Carnauba Wax   | 8015-86-9     |  |                   |
| Paraffin Wax   | 8002-74-2     |  |                   |
| Ethylene-methylmethacrylate copolymer  | 25101-13-7    |  |                   |
| Carbon Black   | 1333-86-4     |  |                   |
| These chemicals are listed in the “TSCA inventory list”                                      |               |  |                   |
| <b>SECTION 3 – Physical/Chemical Characteristics</b>   |               |  |                   |
| <u>Boiling Point</u><br>Above 200°C  |               | <u>Specific Gravity</u><br>0.95                            |                   |
| <u>Vapour Pressure</u><br>N/A  |               | <u>Melting Point</u><br>About 80°C                         |                   |
| <u>Vapour Density</u><br>N/A   |               | <u>Evaporation Rate</u><br>N/A                             |                   |
| <u>Soluble In Water</u><br>Insoluble   |               |  |                   |
| <u>Appearance and Odour</u><br>PET Film coated with solid black ink                          |               |  |                   |
| <b>SECTION 4 – Fire and Explosion Hazard Data</b>  |               |  |                   |
| <u>Flash Point</u><br>About 200°C  |               | <u>Flammable Limits</u>                                    | <u>LEL</u><br>N/A |
|  |               |  | <u>UEL</u><br>N/A |
| <u>Extinguishing Media</u>   |               |  |                   |
| <u>Special Fire Fighting Procedures</u><br>N/A   |               |  |                   |
| <u>Unusual Fire and Explosion Hazards</u><br>No explosion (at room temperature and pressure) |               |  |                   |

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| SECTION 5 – Reactivity Data   |                       |                        |                                |
|---|-----------------------|------------------------|--------------------------------|
| <u>Stability</u>  | Unstable              |                        | <u>Condition to Avoid</u>      |
|   | Stable                | X                      | Except for Super Heating       |
| <u>Incompatibility (Material to Avoid)</u>  |                       |                        |                                |
| None  |                       |                        |                                |
| <u>Hazardous Decomposition or Byproducts</u>  |                       |                        |                                |
| None  |                       |                        |                                |
| <u>Hazardous</u>  | May Occur             |                        | <u>Condition to Avoid</u>      |
| <u>Polymerization</u>   | Will not occur        | X                      | Because of very stable product |
| SECTION 6 – Hazard Health Data  |                       |                        |                                |
| <u>Route(s) of Entry</u>  | <u>Inhalation</u>     | <u>Skin</u>            | <u>Ingestion</u>               |
|   | No                    | No                     | Yes                            |
| <u>Health Hazards (Acute and Chronic)</u>   |                       |                        |                                |
| There are no hazards under normal conditions  |                       |                        |                                |
| <u>Carcinogenicity</u>  | <u>NTP</u>            | <u>IARC Monographs</u> | <u>OSHA Regulated</u>          |
|   | No                    | No                     | No                             |
| <u>Signs and Symptoms of Exposure</u>   |                       |                        |                                |
| None under current use  |                       |                        |                                |
| <u>Medical Conditions</u>   |                       |                        |                                |
| Generally aggravated by exposure      Will not occur  |                       |                        |                                |
| <u>Emergency and First Aid Procedures</u>   |                       |                        |                                |
| Wash away with soap and water<br>If ink has contacted eye, wash it with water                                 |                       |                        |                                |
| SECTION 7 – Precautions for Safe Handling and Use   |                       |                        |                                |
| <u>Steps to Be Taken in Case Material is Released or Spilled</u>  |                       |                        |                                |
| N/A   |                       |                        |                                |
| <u>Waste Disposal Method</u>  |                       |                        |                                |
| Used ink should be disposed of in environmentally safe manner and in accordance with governmental regulations |                       |                        |                                |
| <u>Precautions to be Taken in Hazardous and Storing</u>   |                       |                        |                                |
| Store in a cool , dry and dark place  |                       |                        |                                |
| <u>Other Precautions</u>  |                       |                        |                                |
| None  |                       |                        |                                |
| SECTION 8 – Control Measures  |                       |                        |                                |
| <u>Respiratory Protection (Specify Type)</u>  |                       |                        |                                |
| <u>Ventilation</u>  | Local Exhaust         | None                   |                                |
|   | Special               | None                   |                                |
|   | Mechanical (General)  | None                   |                                |
|   | Other                 | None                   |                                |
| <u>Protective Gloves</u>  | <u>Eye Protection</u> |                        |                                |
| None  | None                  |                        |                                |
| <u>Other Protective Clothing or Equipment</u>   | None                  |                        |                                |
| <u>Work/ Hygienic Practises</u>   | None                  |                        |                                |