

## N GREASE

### Safety Data Sheet

Issue Date: January 2008

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------|---------------|---------------------------------------------------|--|-------------------------------------------------------|--------------------------------|---------------------------|--------|--------------------------------|
| <b>1. Substance/Company Identification</b>      | <table> <tr> <td>Product Name:</td><td>Apiezon N Grease.</td></tr> <tr> <td>Product Type:</td><td>Cryogenic high vacuum grease.</td></tr> <tr> <td>CAS No:</td><td>8012-95-1.</td></tr> <tr> <td>Company Name:</td><td>M&amp;I Materials Ltd.</td></tr> <tr> <td></td><td>Hibernia Way, Trafford Park, Manchester, M32 0ZD, UK.</td></tr> <tr> <td>Telephone: +44 (0)161 864 5409</td><td>Fax: +44 (0)161 864 5444.</td></tr> <tr> <td>Email:</td><td>RussellMartin@mimaterials.com.</td></tr> </table> | Product Name:                 | Apiezon N Grease.                                                     | Product Type:              | Cryogenic high vacuum grease.                                                        | CAS No:                     | 8012-95-1.                                    | Company Name: | M&I Materials Ltd.                                |  | Hibernia Way, Trafford Park, Manchester, M32 0ZD, UK. | Telephone: +44 (0)161 864 5409 | Fax: +44 (0)161 864 5444. | Email: | RussellMartin@mimaterials.com. |
| Product Name:                                   | Apiezon N Grease.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Product Type:                                   | Cryogenic high vacuum grease.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| CAS No:                                         | 8012-95-1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Company Name:                                   | M&I Materials Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
|                                                 | Hibernia Way, Trafford Park, Manchester, M32 0ZD, UK.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Telephone: +44 (0)161 864 5409                  | Fax: +44 (0)161 864 5444.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Email:                                          | RussellMartin@mimaterials.com.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| <b>2. Hazards Identification</b>                | This product is not classified as hazardous.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| <b>3. Composition/Ingredients</b>               | <table> <tr> <td>Composition:</td><td>Hydrocarbon grease.</td></tr> <tr> <td>Hazardous Ingredients:</td><td>None.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                    | Composition:                  | Hydrocarbon grease.                                                   | Hazardous Ingredients:     | None.                                                                                |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Composition:                                    | Hydrocarbon grease.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Hazardous Ingredients:                          | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| <b>4. First Aid Measures</b>                    | <table> <tr> <td>Eyes:</td><td>Irrigate with copious quantities of water.</td></tr> <tr> <td>Skin:</td><td>Wash with soap and water.</td></tr> <tr> <td>Inhalation:</td><td>None envisaged.</td></tr> <tr> <td>Ingestion:</td><td>Do not induce vomiting. Obtain medical attention.</td></tr> </table>                                                                                                                                                                                                  | Eyes:                         | Irrigate with copious quantities of water.                            | Skin:                      | Wash with soap and water.                                                            | Inhalation:                 | None envisaged.                               | Ingestion:    | Do not induce vomiting. Obtain medical attention. |  |                                                       |                                |                           |        |                                |
| Eyes:                                           | Irrigate with copious quantities of water.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Skin:                                           | Wash with soap and water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Inhalation:                                     | None envisaged.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Ingestion:                                      | Do not induce vomiting. Obtain medical attention.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| <b>5. Fire Fighting Measures</b>                | <table> <tr> <td>Suitable extinguishing media:</td><td>Carbon dioxide, dry powder, foam or water fog. Do not use water jets.</td></tr> <tr> <td>Exposure hazards:</td><td>None.</td></tr> <tr> <td>Protective equipment:</td><td>None.</td></tr> </table>                                                                                                                                                                                                                                               | Suitable extinguishing media: | Carbon dioxide, dry powder, foam or water fog. Do not use water jets. | Exposure hazards:          | None.                                                                                | Protective equipment:       | None.                                         |               |                                                   |  |                                                       |                                |                           |        |                                |
| Suitable extinguishing media:                   | Carbon dioxide, dry powder, foam or water fog. Do not use water jets.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Exposure hazards:                               | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Protective equipment:                           | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| <b>6. Accidental Release Measures</b>           | <table> <tr> <td>Personal precautions:</td><td>Spilt product constitutes a slip hazard. Avoid contact with eyes.</td></tr> <tr> <td>Environmental precautions:</td><td>None.</td></tr> <tr> <td>Decontamination procedures:</td><td>Place in containers. See para.13 re disposal.</td></tr> </table>                                                                                                                                                                                                    | Personal precautions:         | Spilt product constitutes a slip hazard. Avoid contact with eyes.     | Environmental precautions: | None.                                                                                | Decontamination procedures: | Place in containers. See para.13 re disposal. |               |                                                   |  |                                                       |                                |                           |        |                                |
| Personal precautions:                           | Spilt product constitutes a slip hazard. Avoid contact with eyes.                                                                                                                                                                                                                                                                                                                                                                                                                                       |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Environmental precautions:                      | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Decontamination procedures:                     | Place in containers. See para.13 re disposal.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| <b>7. Handling and Storage</b>                  | <table> <tr> <td>Handling:</td><td>No special precautions required.</td></tr> <tr> <td>Storage:</td><td>No special precautions required.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                             | Handling:                     | No special precautions required.                                      | Storage:                   | No special precautions required.                                                     |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Handling:                                       | No special precautions required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Storage:                                        | No special precautions required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| <b>8. Exposure Controls/Personal Protection</b> | <table> <tr> <td>Respiratory protection:</td><td>None required.</td></tr> <tr> <td>Hand / skin protection:</td><td>Wash hands after use. For prolonged or repeated skin contact gloves are recommended.</td></tr> <tr> <td>Eye protection:</td><td>None required.</td></tr> </table>                                                                                                                                                                                                                    | Respiratory protection:       | None required.                                                        | Hand / skin protection:    | Wash hands after use. For prolonged or repeated skin contact gloves are recommended. | Eye protection:             | None required.                                |               |                                                   |  |                                                       |                                |                           |        |                                |
| Respiratory protection:                         | None required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Hand / skin protection:                         | Wash hands after use. For prolonged or repeated skin contact gloves are recommended.                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |
| Eye protection:                                 | None required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                                                       |                            |                                                                                      |                             |                                               |               |                                                   |  |                                                       |                                |                           |        |                                |

## N GREASE

Safety Data Sheet  
Continued

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|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------|---------------|
| 9. Physical & Chemical Properties | Physical state:                                                                                                                                                  | Semi solid.                                                                              | Colour:                  | Yellow brown. |
|                                   | Odour:                                                                                                                                                           | None.                                                                                    | Melting point:           | 42°C to 52°C. |
|                                   | Flash point:                                                                                                                                                     | >200°C.                                                                                  | Autoignition point:      | >250°C.       |
|                                   | Explosive limits:                                                                                                                                                | Not determined.                                                                          | Relative density @ 20°C: | 0.911.        |
|                                   | Water solubility:                                                                                                                                                | Insoluble.                                                                               |                          |               |
| 10. Stability & Reactivity        | Stability:                                                                                                                                                       | Will not polymerise.                                                                     |                          |               |
|                                   | Conditions to avoid:                                                                                                                                             | Temperatures >120°C.                                                                     |                          |               |
|                                   | Materials to avoid:                                                                                                                                              | Strong oxidising agents.                                                                 |                          |               |
|                                   | Hazardous decomposition products:                                                                                                                                | None known.                                                                              |                          |               |
| 11. Toxicological Information     | Oral LD50 (rat) >2 g/kg.                                                                                                                                         | Dermal LD50 (Rabbit) >2 g/kg.                                                            |                          |               |
|                                   | Acute Health Effects:                                                                                                                                            |                                                                                          |                          |               |
|                                   | Eyes:                                                                                                                                                            | May cause transient irritation.                                                          |                          |               |
|                                   | Inhalation:                                                                                                                                                      | Low volatility makes inhalation unlikely.                                                |                          |               |
|                                   | Ingestion:                                                                                                                                                       | May cause nausea, vomiting and diarrhoea.                                                |                          |               |
|                                   | Chronic Health Effects:                                                                                                                                          |                                                                                          |                          |               |
|                                   | Skin:                                                                                                                                                            | Repeated and prolonged skin contact may cause skin disorders.                            |                          |               |
| 12. Ecological Information        | Environmental:                                                                                                                                                   | When used and/or disposed of as indicated no adverse environmental effects are foreseen. |                          |               |
|                                   | Mobility:                                                                                                                                                        | Non-volatile/ Insoluble in water.                                                        |                          |               |
|                                   | Degradability:                                                                                                                                                   | Slowly biodegradable in aerobic conditions.                                              |                          |               |
| 13. Disposal Considerations       | Product and packaging must be disposed of in accordance with local and national regulations. May be incinerated. Unused product may be returned for reclamation. |                                                                                          |                          |               |
| 14. Transport Classification      | Not classified as hazardous under air (ICAO/IATA), sea (IMDG), road (ADR) or rail (RID) regulations.                                                             |                                                                                          |                          |               |
| 15. Regulatory Information        | Not classified as dangerous under EC criteria. All chemical substances in this material are included on the TSCA Inventory of Chemical Substances.               |                                                                                          |                          |               |
| 16. Other Information             | Compiled according to the EU Directives 2001/58/EC and 1907/2006/EC.<br>Changes from last issue: Section 1 email address and Section 16 legislation.             |                                                                                          |                          |               |

The information provided in this Safety Data Sheet is correct to our best knowledge, information and belief at the date of its publication. It is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.