Manufacturer:

MATERIAL SAFETY DATA SHEET

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Order Code: A-NA-RLS

I. PRODUCT IDENTIFICATION

Friction Material - Resin bound lining strips for drum brakes.
MG-60 and 61 and NU 21.

No CAS numbers apply to product as supplied.

II. HAZARDOUS INGREDIENTS

<13% mica	3mg/M3 respirable and 6mg/M3 total ACGIH 20 mppcf OSHA Z-3
<1½% graphite	15 mppcf ACGIH
For NU 21 only:	
<7½% coke	2mg/M3 ACGIH . 2.4mg/M3 OSHA Z-3
<7½% talc	2mg/M3 respirable ACGIH

Non-hazardous ingredients, according to OSHA, but with standards recommended by suppliers are: ceramic fiber and aramid fiber both with 2.0 f/cc recommended.

Percentage references are for raw material by weight. As manufactured, above ingredients have become part of a bound system through resin and/or other binder additions (as well as pressing, curing, processing the product into the configuration required for the particular application). Additionally, the combination of chemicals creates a chemically bound situation as well, so that the end product no longer exhibits the properties of the individual components as listed above.

III. PHYSICAL DATA

Insoluble . Specific Gravity - 1.4-2.4 where $H_2O = 1$

Appearance and Odor: Reddish brown to grey black with resinous, oil or rubber odor.
Lining strips, disc pads, clutch, brake block, commercial or industrial friction material.

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: Above 600° C (1112° F) Oxygen enriched atmosphere

Extinguishing Media: Water Fog, CO_2, Foam or dry chemical. Use that which is appropriate for surrounding fire.

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: No explosion hazard, flammable only in oxygen rich temperatures in excess of 600°C.

VIII. SPECIAL PROTECTION INFORMATION

A. Respiratory Protection: Respirator to comply with OSHA Std. 1910.134 such as 3M 8710 or other NIOSH/MSHA approved respirator, if TLV's exceeded.

B. Local Exhaust: Use adequate exhaust ventilation when grinding or machining to draw dust away from workers to prevent routine inhalation. Do not blow dust with compressor.

Mechanical (General) Remove wear dust with vacuum equipment fitted with Hepa Filter.

C. Eye Protection: Comply with OSHA 1910.133. Dust may cause temporary irritation or inflammation. If TLV's exceeded, do not wear contact lenses. Goggles recommended if machining. Flush eyes with generous amount of water if irritated.

D. Protective Gloves: If irritation of skin occurs or product is abrasive, gloves may be worn.

E. Other: Practice good hygiene; wash thoroughly after handling. Do not wash dust laden clothing with other items. Comply with OSHA Std. 1910.132,133,134.

IX. SPECIAL PRECAUTIONS

Monitor to determine if Dust or Fiber is released above permissible time weighted averages. Clean storage areas of dusts by vacuuming. Use every precaution to keep airborne dusts to a minimum.

NOTE:

All data contained herein is based on information from raw material suppliers with cross checks against ACGIH data and OSHA TLV's and is believed to be reliable. However, it is the user's responsibility to determine the safety of the product for his own use. Nuturn has no control on the actual use by others and cannot assume liability for the effects of such use. Governmental regulations or acquisition of additional information may necessitate revisions to any or all sections of this data sheet and such data will be supplied as it becomes available. User is also responsible for obtaining up-to-date information as appropriate.