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MATERIAL SAFETY DATA SHEET

Effective Date: March 29, 1993      Code: Allied Disc Brake      Page:1

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Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: Allied Disc Brake  
Chemical Name: Cured Disc Pad, Semi-Met

Identity (as used on Friction Material): NRP12002EE, SD2100EE, AE2160EE,  
NRP12001EE, AE2105EE, NRP12125EE, NRP12130EE

MANUFACTURER'S NAME:  
Allied-Signal Corporation  
900 West Maple  
Troy, Michigan 48084

EMERGENCY TELEPHONE NO.  
(313)626-9040

MISCELLANEOUS INFORMATION:  
(313)362-7196

SUPPLIER'S NAME:  
Rayloc  
Division of Genuine Parts Company  
3100 Windy Hill Road  
Atlanta, Georgia 30339

REVISION DATE:  
Nov. 1, 2012

Formula: Mixture of Proprietary Ingredients: See Section 2

Section 2 - HAZARDOUS INGREDIENTS

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CAS NO.	INGREDIENT	-----EXPOSURE LIMITS-----				
		% BY WT.	ACGIH TLV	OSHA PEL	UNITS	VP MM    HG
1317-65-3	Calcium Carbonate	5-10		5mg/m3		
7727-43-7	Barium Sulfate	5-15		5mg/m3		
1344-28-1	Aluminum Oxide	2-10		5mg/m3		
1309-48-4	Magnesium Oxide	1-5		5mg/m3		
1333-86-4	Carbon Black	2-10		3.5mg/m3		
7782-42-5	Graphite	1-5		2.5mg/m3		
1309-37-1	Iron Oxide	2-5		10mg/m3		

\*\*\*\*\*WARNING\*\*\*\*\*

Avoid creating or breathing dust. Contains hazardous substances which may cause lung injury. General requirement: Total dust shall not exceed 10mg/m3.

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Section 3 - HAZARDS IDENTIFICATION

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\*Note: Avoid creating dust. The parts are not inherently hazardous. The listed effects relate to dust residues on the parts or to dust generated in installation.

Eyes: May cause transient irritation with no corneal injury likely if immediately removed by washing. Repeated or prolonged exposure to dust may cause eye irritation.

Skin: May cause minor irritation upon single contact but is not appreciably absorbed. Repeated contact may cause sensitization and skin rash.

Inhalation: Avoid inhalation. TLV for inert or nuisance particulate is 10mg/m<sup>3</sup> or 30 mpp/cf, whichever is lower per ACHIH TLV of airborne contaminants.

Ingestion: Do not ingest. Irritant to gastrointestinal tract.

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Section 4 - FIRST AID MEASURES

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-Emergency and First Aid Procedures

Should not be necessary from a proper handling of these friction material products.

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Section 5 - FIREFIGHTING MEASURES

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Flash Point: N/A

Extinguishing Media: N/A

Special Firefighting Precautions: None

Unusual Fire & Explosion Hazards: None

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Section 6 - ENVIRONMENTAL RELEASE MEASURES  
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-Steps to be taken in case material is released or spilled

Solid parts - no special procedures required

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Section 7 - HANDLING AND STORAGE  
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-Special Precautions

No special precautions are required when installing or removing asbestos free friction materials. However, as the mechanic may not know if the worn out lining he is replacing contains asbestos fibers, we suggest the worker follow the Recommended Procedures published by the "Friction Materials Institute" that are reproduced on page 5.

Storage: No special precautions.

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Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION  
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-Protective Equipment

Eyes: Use proper protection - safety glasses as a minimum

Skin: Washing on leaving work area and at end of shift

Inhalation: Respiratory protection is needed if dust is generated.

Ventilation: Local Exhaust not required  
Mechanical (general): Recommended  
Suitable Respirator: Recommended for anyone sensitive to the dust

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES  
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Material state at normal conditions: Solid  
Appearance and Odor: Gray or dark solid part - mild odor  
Specific Gravity: 3.2-3.7 GM/CC                      pH: N/A  
Boiling Point: N/A                                      Melting Point: N/A  
Volatiles: None    Solubility in Water: None

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Section 10 - STABILITY AND REACTIVITY  
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Stability: Stable  
Conditions to Avoid: None  
  
-Hazardous Decomposition Products  
None  
  
Hazardous Polymerization: Will not occur.

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Section 11 - TOXICOLOGICAL INFORMATION  
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Information Not Available

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Section 12 - ECOLOGICAL INFORMATION  
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Information Not Available

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Section 13 - DISPOSAL CONSIDERATIONS  
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-Waste Disposal Method  
  
Dispose by landfill according to federal, state and local regulations.

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Section 14 - TRANSPORT INFORMATION  
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D.O.T Hazard Name (49CFR 172.101): None  
D.O.T ID NO (49CFR 172.101): None  
D.O.T Hazard Class (49CFR 172.101): None  
RCRA Hazard Class (40CFR 261) (if discarded): None  
E.P.A. Priority Pollutants (40CFR 122.53): None  
NFPA = National Fire Protection Association - 704  
Health = 1                      Flammability = 1                      Reactivity = 0  
D.O.T (49CFR 171.8)/E.P.A (40CFR 117) Spill Reporting Information:  
    Hazardous Substances: None                      Reportable Quantity: N/A  
    Concentration of Hazardous Substances: N/A  
    Reportable Quantity of Product: N/A

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Section 15 - REGULATORY INFORMATION  
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No Information Available

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Section 16 - OTHER INFORMATION  
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Supplemental State Compliance Information:  
    Pennsylvania: 1344281    Aluminum Oxide  
                  7727437    Barium Sulfate

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