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GENERAL MOTORS CORP DELCO MORAINE DIV -- METALLIC DISK BRAKE LINING COMPOUND -- 2530-01-331-2708

Product ID:METALLIC DISK BRAKE LINING COMPOUND MSDS Date:11/02/1992 FSC:2530 NIIN:01-331-2708 MSDS Number: BTNBL === Responsible Party === Company Name:GENERAL MOTORS CORP DELCO MORAINE DIV Address:1420 WISCONSIN BLVD Box:1245 City:DAYTON State:OH ZIP:45401 Country:US

Emergency Phone Num:513-227-6240 Preparer's Name:GARRY J. HILL CAGE:11862 === Contractor Identification === Company Name:GENERAL MOTORS CORP CHEVROLET MOTOR DIV Address:30007 VAN DYKE Box:City:WARREN State:MI ZIP:48090 Country:US CAGE:11862

Ingred Name:MAGNESIUM OXIDE CAS:1309-48-4 RTECS #:OM3850000 Fraction by Wt: < 10% Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG/M3 PARTICULATE ACGIH TLV:10 MG/M3, FUME; 9394

Ingred Name:TITANIUM(IV) OXIDE CAS:1317-80-2 RTECS #:XR2275000 Fraction by Wt: < 5% Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST 9091

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (SARA III) CAS:1344-28-1 RTECS #:BD1200000 Fraction by Wt: < 5% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:CARBON BLACK OR ACTIVATED CARBON CAS:7440-44-0 RTECS #:FF5250100 Fraction by Wt: < 5% Other REC L imits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:2 MG/M3 RDUST; 9394

Ingred Name:BARIUM SULFATE CAS:7727-43-7 RTECS #:CR0600000 Fraction by Wt: < 10% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:GRAPHITE (NATURAL) CAS:7782-42-5 RTECS #:MD9659600 Fraction by Wt: < 25% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MPPCF; Z-3 ACGIH TLV:2 MG/M3 RDUST; 9394

Ingred Name:PHENOL FORMALDEHYDE RESIN CAS:9003-35-4 Fraction by Wt: < 10% Othe r REC Limits:NONE RECOMMENDED

Ingred Name:RUBBER CAS:9006-04-6 Fraction by Wt: < 5% Other REC Limits:NONE RECOMMENDED

Ingred Name:STEEL CAS:65997-19-5 Fraction by Wt: < 30% Other REC Limits:NONE RECOMMENDED

Ingred Name:FRICTION PARTICLES Fraction by Wt: < 10% Other REC Limits:NONE RECOMMENDED

Ingred Name:STEEL WOOL Fraction by Wt: 30-70% % Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:TLV = 10 MG/M3 (NUISANCE DUSTS)

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:OVEREXPOSURE TO DUST MAY RESULT IN ADVERSE PULMONARY EFFECTS.

Explanation of Carcinogenicity: THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:RESPIRATORY IRRITATION, LUNG INJURY Medical Cond Aggravated by Exposure:PRE-EXISITNG RESPIRATORY AILMENTS

MAY BE AGGRAVATED BY EXPOSURE.

First Aid:INHALATION: REMOVE TO FRESH AIR. EYES: FLUSH WITH WATER. SEE PHYSICIAN IF IRRITATION CONTINUES.

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:NONFLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:NONFLAMMABLE. USE PROCEDURES SUITABLE FOR

SURROUNDING FIRE. Unusual Fire/Explosion Hazard: AS WITH ALL DUSTS, AVOID BUILD-UP, POTENTIAL FOR EXPLOSION UNDER CERTAIN CONDITIONS.

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: AVOID WET OR DAMP STORAGE THAT COULD RUST GROUND SURFACES.

Other Precauti

ons:MAINTAIN GOOD HOUSEKEEPING PRACTICES. SPARKS MAY BE PRODUCED UNDER SOME GRINDING CONDITIONS.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection:NORMALLY NOT REQUIRED.
Ventilation:LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION TO MAINTAIN EXPOSURE LEVELS.
Protective Gloves:LEATHER
Eye Protection:SAFETY GLASSES
Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.
Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.
Supplemental Safety and Health NONE SPECIFIED BY MANUFACTURER.

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Vapor Pres:NOT GIVEN Vapor Density:NOT GIVEN Spec Gravity:2.6 - 3.54 Evaporation Rate & amp; Reference:NOT GIVEN Solubility in Water:NOT GIVEN Appearance and Odor:GREY BLACK SOLID, NO ODOR Percent Volatiles by Volume:NIL

====== Stabili

Stability Indicator/Materials to Avoid:YES NONE IN DESIGNED USE. Stability Condition to Avoid:MOISTURE Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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