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

============= Product Identification ==================

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

Info Phone Num:513-227-6240

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

======= Composition/Information on Ingredients ========

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 ============== Hazards Identification ======================= 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

Unusual Fire/Explosion Hazard: AS WITH ALL DUSTS, AVOID BUILD-UP, POTENTIAL FOR EXPLOSION UNDER CERTAIN CONDITIONS.
======== Accidental Release Measures =========
Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
=========== Handling and Storage ============
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.
========= Physical/Chemical Properties ==========
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 & DIVEN Solubility in Water:NOT GIVEN Appearance and Odor:GREY BLACK SOLID, NO ODOR Percent Volatiles by Volume:NIL

======= Stabili

ER

ty and Reactivity Data =========

======= Disposal Considerations ===========

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

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