

CARLISLE CORP,MOTION CONTROL INDUSTRIES DIV -- BRAKE LINING,NON ASBESTOS FRICTION MATERIAL -- 2530-01-171-4324

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

Product ID: BRAKE LINING,NON ASBESTOS FRICTION MATERIAL

MSDS Date: 03/31/1989

FSC: 2530

NIIN: 01-171-4324

MSDS Number: BPPGC

=== Responsible Party ===

Company Name: CARLISLE CORP,MOTION CONTROL INDUSTRIES DIV

Address: GILLIS AVE

Box: P

City: RIDGEWAY

State: PA

Z

IP: 15853

Country: US

Info Phone Num: 814-773-3185

Emergency Phone Num: 814-773-3185

Preparer's Name: ROBERT M.TAMI

CAGE: 65176

=== Contractor Identification ===

Company Name: CARLISLE CORP,MOTION CONTROL INDUSTRIES DIV

Address: GILLIS AVE

Box: P

City: RIDGEWAY

State: PA

ZIP: 15853

Country: US

Phone: 814-773-3185

CAGE: 65176

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

Ingred Name: ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS FORMS) (SARA III)

CAS: 1344-28-1

RTECS #: BD12

00000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:MINERAL WOOL FIBERS
Other REC Limits:SEE ABOVE
OSHA PEL:10 MG/M3 TDUST(MFG)
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:BARIUM SULFATE
CAS:7727-43-7
RTECS #:CR0600000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:GROUND COAL
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1 MG/M3 RDUST
ACGIH TLV:2 MG/M3 RDUST 9192

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE)
CAS:1317-65-3
RTECS #:EV9580000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:GRAPHITE, NATURAL
CAS:7782-42-5
RTECS #:MD9659600
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MPPCF RDUST
ACGIH TLV:2 MG/M3 RDUST; 9293

Ingred Name:GLASS FIBERS
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3 RDUST
ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:MAN MADE FIBERS
Other REC Limits:5 MG/M3 (MFG)

Ingred Name:IRON OXIDE (IRON POWDER

S)
CAS:1309-37-1
RTECS #:NO7400000
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG/M3 (FE)
ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:CELLULOSE (PAPER FIBER)
CAS:9004-34-6
RTECS #:FJ5691460
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:CASHEW/PHENOLIC RESINS
Other REC Limits:5 MG/M3 TDUST (MFG)
OSHA PEL:10 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST 9192

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:NON ASBESTOS BRAKE LINING WHEN HANDLED PROPERLY DOES NOT PRESENT A KNOWN HEALTH RISK. WHEN GRINDING, DRILLING, OR REWORKING NECESSARY PRECAUTIONS SHOULD BE TAKEN TO AVOID CREATING DUST. DUST MAY CAUSE EYE, SKIN, NOSE, THROAT, RESPIRATORY, AND PHYSICAL IRRITATION AND PERHAPS ANTHROCOSILICOSIS AND PNEUMOCONIOSIS.

Effects of Overexposure:EYE, SKIN, NOSE, THROAT, AND RESPIRATORY TRACT IRRITATION. RASH MAY DEVELOP ON EMPLOYEES WITH SENSITIVE SKIN. DRYNESS OF THE THROAT AND SHORTNESS OF BREATH INDICATES OVEREXPOSURE TO DUST.
Medical Cond Aggravated by Exposure:NONE KNOWN.

=====
===== First Aid Measures =====

First Aid:SHOULD NOT BE NECESSARY FROM REASONABLE HANDLING OF PRODUCT.

=====
===== Fire Fighting Measures =====

Extinguishing Media

:WATER. EXTINGUISHER CLASS A,B,AND C.

Fire Fighting Procedures:WEAR POSITIVE PRESSURE, SELF CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:FLAMMABLE ONLY IN OXYGEN RICH ATMOSPHERE.

===== Accidental Release Measures =====

Spill Release Procedures:AVOID CREATING DUST. AVOID SWEEPING OR OTHERWISE GENERATING AIRBORNE PARTICULATE. USE APPROVED VACUUM METHODS FOR CLEANING OR REMOVING DUST FROM BRAKE DRUMS. DO NOT USE COMPRESSED AIR. AVOID BREATHING DUST. USE RESPIRATOR IF DUST BECOMES AIRBORNE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:AVOID CREATING EXCESSIVE DUST. USE DUST COLLECTION IF GRINDING, DRILLING, OR ALTERING PRODUCT IN ANY WAY.

Other Precautions:PROTECTIVE CREAMS AND SLEEVES MAY BE NECESSARY FOR EMPLOYEES WITH SENSITIVE SKIN.

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

Respiratory Protection:NIOSH APPROVED FOR PNEUMOCONIOSIS AND FIBROSIS PRODUCING DUSTS WITH TLV'S NOT LESS THAN 0.05 MG/M3. SUCH AS 3M 8710. FOLLOW RESPIRATOR STANDARD 1910.34.

Ventilation:LOCAL EXHAUST, PER ANSI 29.2-1971 RECOMMENDED TO AVOID CONTACT WITH DUST.

Protective Gloves:AS NEEDED.

Eye Protection:OSHA APPROVED SAFETY GLASSES.

Other Protective Equipment:PROTECTIVE SLEEVES AND CREAMS FOR EMPLOYEES WITH SENSITIVE SKIN.

Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING,

DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHING SEPARATELY AND BEFORE REUSE.

Supplemental Safety and Health

DO NOT REMOVE DUST USING COMPRESSED AIR. WHETHER THE EFFECTS OF SMOKING AND EXPOSURE TO MINERAL WOOL FIBER ARE MORE THAN ADDITIVE IS UNCLEAR, BUT SMOKING BY THESE WORKERS WAS FOUND TO CONTRIBUTE TO THE HIGHER INCIDENCE OF LUNG CANCER. BECAUSE OF THIS IT IS RECOMMENDED THAT PEOPLE HANDLING MINERAL WOOL NOT SMOKE.

===== Physical/Chemical Pr

operties =====

HCC:N1

Spec Gravity:1.8-3.5

Evaporation Rate & Reference:0

Solubility in Water:NONE

Appearance and Odor:SOLID. LIGHT TAN TO DARK GREY COLOR. SLIGHT SOUR
ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE KNOWN.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NONE KNOWN.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

=====

Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF WASTE IN LANDFILL IN ACCORDANCE WITH
LOCAL, STATE AND FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing
this

document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.