

ALLIED-SIGNAL AEROSPACE COMPANY/BENDIX -- CERAMETALIX AIRCRAFT BRAKE LINING --  
1630-00-592-7865

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

Product ID:CERAMETALIX AIRCRAFT BRAKE LINING

MSDS Date:01/04/1988

FSC:1630

NIIN:00-592-7865

MSDS Number: BJCQL

=== Responsible Party ===

Company Name:ALLIED-SIGNAL AEROSPACE COMPANY/BENDIX

Box:10

City:SOUTH BEND

State:IN

ZIP:46624

Info Phone Num:(219) 237-2800

Emergen

cy Phone Num:(219) 237-2800

Preparer's Name:J.L. WOOD

CAGE:06848

=== Contractor Identification ===

Company Name:ALLIED-SIGNAL AEROSPACE CO

Address:717 N BENDIX DRIVE

Box:10

City:SOUTH BEND

State:IN

ZIP:46620

Country:US

Phone:219-231-4385

CAGE:06848

Company Name:HONEYWELL INTL INC, AIRCRAFT LANDING SYSTEM ALS

Address:3520 WESTMOOR STREET

Box:City:SOUTH BEND

State:IN

ZIP:46628-1373

Country:US

Phone:219-231-2201

CAGE:55284

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

Ingr

ed Name:MOLYBDENUM (INSOLUBLE)  
CAS:1439-98-7  
OSHA PEL:10 MG/CUM  
ACGIH TLV:10 MG/CUM

Ingred Name:MOLYBDENUM  
CAS:7439-98-7  
RTECS #:QA4680000  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9293

Ingred Name:SILICATE  
OSHA PEL:10 MG/CUM  
ACGIH TLV:10 MG/CUM

Ingred Name:GRAPHITE, SYNTHETIC  
CAS:7440-44-0  
RTECS #:FF5250100  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS  
FORMS) (SARA III)  
CAS:1344-28-1  
RTECS #:BD1200000  
OSHA PE  
L:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:COPPER (SARA III)  
CAS:7440-50-8  
RTECS #:GL5325000  
Other REC Limits:1 MG(CU)/M3 (DUST)  
OSHA PEL:0.1MG/M3 FUME/1 DUST  
ACGIH TLV:0.2MG/M3 FUME; 9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:SILICA, CRYSTALLINE - QUARTZ  
CAS:14808-60-7  
RTECS #:VV7330000  
Other REC Limits:0.05 MG/CUM NIOSH  
OSHA PEL:SEE TABLE Z3  
ACGIH TLV:0.1 MG/M3 RDUST;9293

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

Routes of Entry:

Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION: METAL DUSTS CAN CAUSE IRRITATION TO THE UPPER RESPIRATORY SYSTEM & SILICA CAN CAUSE DISABLING LUNG FUNCTION, SCARRING (SILICOSIS), COUGHING, & SHORTNESS OF BREATH. EYES/SKIN: DUST MAY CAUSE IRRITATION. INGESTION: POSSIBLE GASTROINTESTINAL DISTURBANCES.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION: METAL DUSTS CAN CAUSE IRRITATION TO

THE UPPER RESPIRATORY SYSTEM, SILICA CAN CAUSE DISABLING LUNG FUNCTION, SCARRING SILICOSIS, COUGHING, & SHORTNESS OF BREATH. SKIN/EYES: DUST MAY CAUSE IRRITATION. INGESTION: POSSIBLE GASTROINTESTINAL DISTURBANCES.

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

First Aid:SHOULD NOT BE NECESSARY WHEN PRODUCT IS PROPERLY HANDLED.

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

Respiratory Protection:RESPIRATORS APPROVED BY NIOSH FOR PROTECTION

FROM DUST & MIST EXPOSURE CAN BE USED WHERE NECESSARY TO LIMIT DUST EXPOSURE.

Ventilation:DUST SHOULD BE CONTROLLED BY LOCAL VENTILATION OR OTHER ENGINEERING TECHNIQUES.

Protective Gloves:RECOMMENDED

Eye Protection:SAFETY GLASSES

Supplemental Safety and Health

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===== Physical/Chemical Properties =====

Spec Gravity:4.25-4.65

Evaporation Rate & Reference:0

Solubility in Water:NO

Appearance and Odor:SOLID SHINY DARK COPPER MATRIX/  
WHITE PARTICLES OF  
MULLITE/CHOPPED STEEL FIBERS

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

Stability Indicator/Materials to Avoid:YES

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

Waste Disposal Methods:DISPOSE IN PROPER RECEPTACLES APPROPRIATELY LABELED IN ACCORDANCE W/APPLICABLE, STATE, & LOCAL LAWS & REGULATIONS. THE RECOMMENDED EXPOSURE LIMITS ARE THOSE FOR THE MOST HAZARDOUS SUBSTANCE IN A CLASS OF SUBSTANCES.

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