

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

===== 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

Emergenc

y 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

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

Ingre

d 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 PEL  
: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

=====  
===== 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.

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

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

=====  
===== 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

=====  
===== 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

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

Stability Indicator/Materials to Avoid: YES

=====  
===== 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.

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.