

B AND S AIRCRAFT ALLOYS INC. -- AZ31B, MAGNESIUM -- 3439-01-097-5992

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Product Identification
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Product ID:AZ31B, MAGNESIUM

MSDS Date:10/16/2000

FSC:3439

NIIN:01-097-5992

Status Code:A

MSDS Number: CLRXV

=== Responsible Party ===

Company Name:B AND S AIRCRAFT ALLOYS INC.

Address:10 AERIAL WAY

City:SYOSSET,

State:NY

ZIP:17791-6005

Country:US

Info Phone Num:516-681-2400

Emergency Phone Num:

5166812400

CAGE:1T014

=== Contractor Identification ===

Company Name:B AND S AIRCRAFT ALLOYS INC.

Address:10 AERIAL WAY

Box:City:SYOSSET,

State:NY

ZIP:17791-6005

Country:US

Phone:516-681-2400

CAGE:1T014

Company Name:EUR-PAC CORP.

Address:112 PORTER ST

Box:City:WATERBURY

State:CT

ZIP:06708

Country:US

Phone:203-756-0102 / FAX 0103

Contract Num:SP0490-98-M-BG71

CAGE:8B805

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Composition/Information on Ingredients
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Ingred Name:ALUMINUM

CAS:007429-90-5

< Wt:9.

ACGIH TLV

:10 MG/M3

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Fraction by Wt: BALANCE
OSHA PEL:10 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name:ZINC
CAS:7440-66-6
RTECS #:ZG8600000
< Wt:6.
ACGIH TLV:5 MG/M3 AS FUMES
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MANGANESE
CAS:7439-96-5
RTECS #:OO9275000
< Wt:1.
OSHA PEL:C5 MG/M3
ACGIH TLV:5 MG/M3

Ingred Name:ZIRCONIUM
CAS:7440-67-7
RTECS #:ZH7070000
< Wt:1.
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3
ACGIH STEL:10 MG/M3

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= Hazards Identification =====

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SHORT-TERM EXPOSURE TO FUMES/ DUST MAY
PRODUCE IRRITATION OF EYES AND RESPIRATORY SYSTEM. INHALATION OF
HIGH CONCENTRATIONS OF FRESHLY FORMED OXIDE FUMES OF MAGNESIUM AND
LEAD MAY CAUSE METAL FUME FEVER, CHARACTERIZED BY A METALLIC TASTE
IN THE MOUTH, DRYNESS AND IRRITATION OF THE THROAT AND INFLUENZA
SYMPTOMS. EXPOSURE TO ZINC OXIDE FUMES

OR DUSTS CAN RESULT IN A

FLU-LIKE ILLNESS CALLED METAL FUME FEVER. EARLY SYMPTOMS MAY INCLUDE A SWEET OR METALLIC TASTE IN THE MOUTH, DRYNESS AND IRRITATION OF THE THROAT AND COUGHING. THE SYMPTOMS MAY APPEAR 8-48 HOURS AFTER OVEREXPOSURE.

Explanation of Carcinogenicity: THIS PRODUCTS INGREDIENTS ARE NOT FOUND IN FEDERAL OSHA NTP IARC

Effects of Overexposure: SHORT-TERM EXPOSURE TO FUMES/ DUST MAY PRODUCE IRRITATION OF EYES & RESPIRATORY SYSTEM. INHALATION OF HIGH CO

NCENTRATIONS OF FRESHLY FORMED OXIDE FUMES OF MAGNESIUM , LEAD AND ZINC MAY CAUSE METAL FUME FEVER, CHARACTERIZED BY A METALLIC TASTE IN THE MOUTH, DRYNESS AND IRRITATION OF THE THROAT AND INFLUENZA SYMPTOMS. EARLY SYMPTOMS MAY INCLUDE A SWEET OR METALLIC TASTE IN THE MOUTH, DRYNESS AND IRRITATION OF THROAT AND COUGHING, AND MAY PROGRESS TO SHORTNESS OF BREATH, HEADACHE, CHILLS, FEVER, NAUSEA, VOMITING & DIARRHEA.

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===== First Aid Measures =====
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First Aid: IF EXPOSED TO EXCESSIVE LEVELS OF METAL FUMES, REMOVE TO FRESH AIR, SEEK MEDICAL AID IMMEDIATELY. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES.

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

Extinguishing Media: DRY SAND, METAL EXTINGUISHING POWDERS SUCH AS GL MET-L-X. DO NOT USE WATER OR HALOGEN ON DUST FIRES.

Unusual Fire/Explosion Hazard: ARC OR SPARK GENERATED WHEN WELDING OR BURNING COULD BE A SOURCE OF IGNITION FOR COMBUSTIBLE AND FLAMMABLE

MATERIALS. WHEN HEATED IN AIR TO A TEMPERATURE NEAR ITS MELTING POINT, MAGNESIUM ALLOYS IGNITE AND BURN WITH A WHITE FLAME. USE OF WATER ON MOLTEN MAGNESIUM WILL PRODUCE H₂ GAS AND MAY CAUSE EXPLOSION.

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

Handling and Storage Precautions: PRACTICE CARE IN HANDLING MAGNESIUM AND MAGNESIUM ALLOY PRODUCT FORMS TO AVOID PRODUCT DAMAGE AND/OR PERSONAL INJURY. STORE PRODUCT IN DRY LOCATION. WET,

MOIST OR HIGH

HUMIDITY STORAGE CONDITIONS WILL LEAD TO CORROSION OF THE PRODUCT.
STORE AWAY FROM OTHER COMBUSTIBLES. SEE NFPA BULLITIN #48.

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

Respiratory Protection:NIOSH/MSHA APPROVED DUST AND FUME RESPIRATOR
SHOULD BE USED TO AVOID EXCESSIVE INHALATION OF PARTICULATES WHEN
EXPOSURE EXCEEDS TLVS.

Ventilation:LOCAL EXHAUST VENTILATION SHOULD BE UTILIZED WHEN WELDING,
BURNING, SAWING, BRAZING, GRINDING OR MA
CHINING WHEN EXPOSURE
EXCEED TLV'S.

Protective Gloves:PROTECTIVE GLOVES ARE RECOMMENDED DURING HANDLING OF
FINES EXPOSURE

Eye Protection:SAFETY GLASSES OR GOGGLES SHOULD BE UTILIZED AS REQUIRED
BY EXPOSURE

Other Protective Equipment:OTHER PROTECTIVE EQUIPMENT SHOULD BE
UTILIZED AS REQUIRED BY THE WELDING STANDARD

Supplemental Safety and Health

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

HCC:N1

Melt/Freeze Pt:=650.C, #####F

Spec Gravity:(H2O=1):1.74

App

pearance and Odor:SILVER, SOLID, ODORLESS

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

Stability Indicator/Materials to Avoid:YES

ACID, WATER, REACTS WITH ACID TO FORM HYDROGEN GAS IN FINELY DIVIDED
FORM, WILL REACT WITH WATER AND ACIDS TO RELEASE HYDROGEN.

Stability Condition to Avoid:ARC OR SPARK GENERATED WHEN WELDING OR
BURNING COULD BE A SOURCE OF IGNITION FOR COMBUSTIBLE AND FLAMMABLE
MATERIALS.

Hazardous Decomposition Products:WHEN HEATED IN AIR TO A TE
MPERATURE

NEAR ITS MELTING POINT, MAGNEISUM ALLOYS IGNITE AND BURN WITH A
WHITE FLAME

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

Waste Disposal Methods:DISPOSE IN ACCDORDING TO LOCAL, STATE AND
FEDERAL REGULATIONS.

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