

LITTON SYSTEMS INC., DATA SYST -- BERYLLIUM OXIDE

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MSDS Safety Information  
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FSC: 5999  
NIIN: 00-064-4575  
MSDS Date: 11/05/1991  
MSDS Num: BLFBK  
Product ID: BERYLLIUM OXIDE  
MFN: 01  
Responsible Party  
Cage: 13973  
Name: LITTON SYSTEMS INC., DATA SYSTEMS DIV.  
Address: 8000 WOODLEY AVE  
City: VAN NUYS  
CA 91409  
Info Phone Number: 818-706-4801  
Emergency Phone Number: 818-706-4801  
Preparer's Name: DGCS-SSH  
Review Ind: Y  
Published: Y

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Contractor Summary  
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Cage: 13973  
Name: LITTON SYSTEMS INC., DATA SYSTEMS DIV.  
Address: 8000 WOODLEY AVE  
City: VAN NUYS CA 91409  
Phone: 818-706-4801

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Item Description Information  
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Item Manager: S9E  
Item Name: HEAT SINK,ELECTRICAL-ELECTRONIC COMPONENT  
Unit of Issue: EA  
UI Container Qty: 1

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Ingredients  
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Cas: 1304-56-9  
RTECS #: DS4025000  
Name: BERYLLIUM OXIDE  
% Wt: 99.8  
Other REC Limits: NONE SPECIFIED  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

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Health Hazards Data  
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LD50 LC50 Mixture: LD50 (ORAL RAT) IS UNKNOWN

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: NO

Carcinogenicity Inds - NTP: YES

IARC: YES

OSHA: YES

Effects of Exposure: ACUTE-MAY CAUSE IRRITATION. CHRONIC-CARCINOGEN.

Explanation Of Carcinogenicity: THIS COMPOUND IS A CARCINOGEN OR SUSPECT CARCINOGEN.

Signs And Symptoms Of Overexposure: MAY BE FATAL IF INHALED, SWALLOWED OR ABSORBED THROUGH THE SKIN.

Medical Cond Aggravated By E

xposure: NONE KNOWN.

First Aid: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYE OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHIN G GIVE ARTIFICIAL RESPIRATION. IF HARD TO BREATH, GIVE OXYGEN. IN CASE OF EXPOSURE, OBTAIN IMMEDIATE MEDICAL ATTENTION. DISCARD CONTAMINATED CLOTHES/SHOES.

#### Handling and Disposal

Spill Release Procedures: GUARD AGAINST GRINDING OR CRUSHING COMPONENT. IF GRINDING/CRUSHING OCCURS, VACUUM UP OR PLACE IN A BAG FOR DISPOSAL. USE AN ABSOLUTE FILTER (HEPA) IN THE VACUUM. DO NOT DRY SWEEP. WEAR RESPIRATOR AND PROTECTIVE EQUIPMENT.

Waste Disposal Methods: BURY IN A LANDFILL SITE APPROVED FOR THE DISPOSAL OF CHEMICAL/HAZARDOUS WASTE. RECOMMEND SEALING IN 2 PLASTIC BAGS THEN PLACE IN DOT CONTAINER WITH WARNING LABEL. DISPOSAL MUST BE IN ACC

ORDANCE WITH A

PPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

Handling And Storage Precautions: PROVIDE ADEQUATE LOCAL EXHAUST USE ONLY IN A CHEMICAL FUME HOOD WHEN PERFORMING OPERATION WHERE DUST, MIST OR FUMES CAN BE GENERATED.

Other Precautions: AVOID PROLONGED OR REPEATED EXPOSURE.

#### Fire and Explosion Hazard Information

Flash Point Text: NONCOMBUSTIBLE

Extinguishing Media: N

ONE NORMALLY REQUIRED.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE A NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard: VOLATILE BERYLLIUM HYDROXIDE CAN FORM IF THIS PRODUCT IS EXPOSED TO TEMPERATURES OVER 1200C.

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Control Measures  
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Respiratory Protection: WEAR APPROPRIATE OSHA/MSHA APPROVED RESPIRATOR.

Ventilation: L

OCAL AND MECHANICAL(GENERAL) EXHAUST TO PROVIDE ADEQUATE VENTILATION OR USE A CHEMICAL FUME HOOD.

Protective Gloves: CHEMICAL RESISTANT GLOVES.

Eye Protection: SAFETY GLASSES

Other Protective Equipment: WEAR INDUSTRIAL WORK CLOTHING. HAVE EMERGENCY EYE WASH AND SAFETY SHOWER AVAILABLE.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health: AVOID PROLONGED OR REPEATED EXPOSUR

E. DO NOT

GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MIST. DO NOT INGEST. READ PRECAUTIONS ON LABEL BEFORE USE.

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Physical/Chemical Properties  
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HCC: T7

B.P. Text: 7052F,3900C

M.P/F.P Text: 4586F,2530C

Decomp Text: UNKNOWN

Spec Gravity: 3.0106

Solubility in Water: INSOLUBLE

Appearance and Odor: WHITE SOLID

Corrosion Rate: UNKNOWN

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Reactivity Data  
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Stability Indicator: YES

Stability Condition To Avoid: HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION.

Materials To Avoid: ACIDS.

Hazardous Decomposition Products: YTOXIC FUMES.CARBON MONOXIDE AND CARBON DIOXIDE

Hazardous Polymerization Indicator: NO

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Toxicological Information  
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Ecological Information  
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MSDS Transport Information  
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Regulatory Information  
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Other Information  
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Transportation Information  
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Responsible Party Cage: 13973  
Trans ID NO: 45588  
Product ID: BERYLLIUM OXIDE  
MSDS Prepared Date: 11/05/1991  
Review Date: 11/05/1991  
MFN: 1  
Tech Entry NOS Shipping Nm: BERYLLIUM COMPOUND N.O.S  
AF MMAC Code: NR  
Multiple KIT Number: 0  
Review IND: Y  
Unit Of Issue: EA  
Container QTY: 1  
Additional Data: BERYLLIUM OXIDE  
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Detail DOT Information  
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DOT PSN Code: BVQ  
DOT Proper Shipping Name: BERYLLIUM COMPOUNDS, N.O.S.  
Hazard Class: 6.1  
UN ID Num: UN1566  
DOT Packaging Group: II  
Label: POISON  
Packaging Exception: NONE  
Non Bulk Pack: 212  
Bulk Pack: 242  
Max Qty Pass: 25 KG  
Max Qty Cargo: 100 KG  
Vessel Stow Req: A  
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Detail IMO Information  
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IMO PSN Code: CBF  
IMO Proper Shipping Name: BERYLLIUM COMPOUND, N.O.S.  
IMDG Page Number: 6085  
UN Number: 1566  
UN Hazard Class: 6.1  
IMO Packaging Group: II/III  
Subsidiary Risk Label: -  
EMS Number: 6.1-04  
MED First Aid Guide NUM: 125  
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Detail IATA Information  
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IATA PSN Code: DIN  
IATA UN ID Num: 1566  
IATA Proper Shipping Name: BERYLLIUM COMPOUND, N.O.S.  
IATA UN Class: 6.1  
IA  
TA Label: TOXIC  
UN Packing Group: II  
Packing Note Passenger: 613  
Max Quant Pass: 25KG  
Max Quant Cargo: 100KG  
Packaging Note Cargo: 615  
Exceptions: A3  
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Detail AFI Information  
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AFI PSN Code: DIN  
AFI Symbols: \*  
AFI Proper Shipping Name: BERYLLIUM COMPOUNDS, N.O.S.  
AFI Hazard Class: 6.1  
AFI UN ID NUM: UN1566  
AFI Packing Group: II  
Special Provisions: P5  
Back Pack Reference: A10.6  
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=====  
HAZCOM Label  
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Product ID: BERYLLIUM OXIDE  
Cage: 13973  
Company Name: LITTON SYSTEMS INC., DATA SYSTEMS DIV.  
Street: 8000 WOODLEY AVE  
City: VAN NUYS CA  
Zipcode: 91409  
Health Emergency Phone: 818-706-4801  
Label Required IND: Y  
Date Of Label Review: 11/05/1991  
Status Code: C  
MFG Label NO: UNKNOWN  
Label Date: 11/05/1991  
Origination Code: F  
Eye Protection IND: YES  
Skin Protection IND: YES  
Signal Word:

DANGER

Respiratory Protection IND: YES

Health Hazard: Severe

Contact Hazard: Moderate

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: THIS COMPOUND IS A CARCINOGEN OR SUSPECT CARCINOGEN. IN CASE OF SPILL: GUARD AGAINST GRINDING OR CRUSHING COMPONENT. IF GRINDING/CRUSHING OCCURS, VACUUM UP OR PLACE IN A BAG FOR DISPOSAL. USE AN ABSOLUTE FILTER (HEPA) IN THE VACUUM. DO NOT DRY SWEEP. WEAR RESPIRATOR AND PROTECTIVE EQUIPMENT. FIRST AID: IN CASE OF CONTACT, IMMEDIATELY FLUSH

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