

LITTON SYSTEMS INC., DATA SYST -- BERYLLIUM OXIDE

=====
MSDS Safety Information
=====

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 C
A 91409
Info Phone Number: 818-706-4801
Emergency Phone Number: 818-706-4801
Preparer's Name: DGCS-SSH
Review Ind: Y
Published: Y

=====
Contractor Summary
=====

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

=====
Item Description Information
=====

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

=====
Ingredients
=====

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

=====
Health Hazards Data
=====

=====
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 Exposure: 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 BREATHING GIVE ARTIFICIAL RESPIRATION. IF HARD TO BREATHE, 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 ACCORDANCE WITH APPLICABLE 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: NO

NE 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.

=====
Control Measures
=====

Respiratory Protection: WEAR APPROPRIATE OSHA/MSHA APPROVED RESPIRATOR.

Ventilation: LO

CAL 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 EXPOSURE

. DO NOT

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

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

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

=====
Reactivity Data
=====

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

=====
Toxicological Information
=====

=====
Ecological Information
=====

=====
MSDS Transport Information
=====

=====
Regulatory Information
=====

=====
Other Information
=====

=====
Transportation Information
=====

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
=====

=====
Detail DOT Information
=====

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
=====

=====
Detail IMO Information
=====

=====
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
=====

=====
Detail IATA Information
=====

IATA PSN Code: DIN
IATA UN ID Num: 1566
IATA Proper Shipping Name: BERYLLIUM COMPOUND, N.O.S.
IATA UN Class: 6.1
IAT
A Label: TOXIC
UN Packing Group: II
Packing Note Passenger: 613
Max Quant Pass: 25KG
Max Quant Cargo: 100KG
Packaging Note Cargo: 615
Exceptions: A3
=====

=====
Detail AFI Information
=====

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
=====

=====
HAZCOM Label
=====

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: D

ANGER

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 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 BREATHING GIVE ARTIFICIAL RESPIRATION. IF HARD TO BREATHE, GIVE OXYGEN. IN CASE OF EXPOSURE, OBTAIN IMMEDIATE MEDICAL ATTENTION.

=====
Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense

e. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.