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ALFA AESAR,A JOHNSON MATTHEY COMPANY -- CESIUM (STOCK # 97715, SEE SUPPL DATA) -- 6240-01-266-0930

Product ID:CESIUM (STOCK # 97715, SEE SUPPL DATA) MSDS Date:01/11/2001 FSC:6240 NIIN:01-266-0930 Status Code:A MSDS Number: CLMCZ === Responsible Party === Company Name: ALFA AESAR, A JOHNSON MATTHEY COMPANY Address:30 BOND STREET City:WARD HILL State:MA ZIP:0183 5-0747 Country:US Info Phone Num:508-521-6300/978-424-9300 Emergency Phone Num:978 521-6300 - 800 424-9300 Chemtrec Ind/Phone:(800)424-9300 CAGE:NO660 === Contractor Identification === Company Name: ALFA AESAR, A JOHNSON MATTHEY COMPANY Address:30 BOND STREET Box:City:WARD HILL State:MA ZIP:01835-0747 Country:US Phone:508-521-6300/978-424-9300 CAGE:NO660 Company Name: LORAL ELECTRO-OPTICAL SYSTEMS A SUB OF LORAL CORP Address:300 N HALSTEAD ST Box:7101 **City:PASADENA** State:CA ZIP:91109 Country:US Con

tract Num:SP056000CC080 CAGE:12705 Company Name:SANDERS, A LOCKHEED MARTIN CO (BAE SYSTEMS) Address:600 E. BONITA AVENUE Box:City:POMONA State:CA ZIP:91767 Country:US Phone:XXXXXXXXXXXXXX CAGE:UO698

Ingred Name:CESIUM CAS:7440-46-2 RTECS #:FK9225000 = Wt:100.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Health Hazards Acute and Chronic:PRIMARY IRRITANT EFFECT: SKIN:

CORROSIVE TO SKIN AND MUCOUS MEMBRANES. EYE: STRONG CORROSIVE EFFECT.INHALATION MAY RESULT IN RESPIRATORY EFFECTS SUCH AS INFLAMMATION, EDEMA, & CHEMICAL PNEUMONITIS. SE NSITIZATION: NO SENSITIZING EFFECTS KNOWN. SUBACUTE TO CHRONIC TOXICITY: CESIUM COMPOUNDS MAY CAUSE HYPER-IRRITABILITY, INCLUDING SPASMS, DIZZINESS, ABDOMINAL CRAMPS, VOMITING, DIARRHEA, CONVULSIONS A ND COLLAPSE. CHRONIC INGESTION OF CESIUM HAS BEEN FATAL TO LABORATORY ANIM

ALS, POSSIBLY DUE TO THE REPLACEMENT OF POTASSIUM. CHRONIC EXPOSURE ALSO CAN HAVE BLOOD AND NEUROMUSCULAR EFFECTS.

Explanation of Carcinogenicity:NO CLASSIFICATION DATA ON CARCINOGENIC PROPERTIES OF THIS MATERIAL IS AVAILABLE FROM THE EPA, IARC, NTP, OSHA OR ACGIH.

Effects of Overexposure:CORROSIVE MATERIALS ARE ACUTELY DESTRUCTIVE TO THE RESPIRATORY TRACT, EYES, SKIN AND DIGESTIVE TRACT. EYE CONTACT MAY RESULT IN PERMANENT DAMAGE AND COMPLETE VISION LOSS. INHALATION MAY RESULT IN RESP IRATORY EFFECTS SUCH AS INFLAMMATION, EDEMA, AND CHEMICAL PNEUMONITIS. MAY CAUSE COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING. INGESTION MAY CAUSE DAMAGE TO THE M OUTH, THROAT AND ESOPHAGUS. MAY CAUSE SKIN BURNS OR IRRITATION DEPENDING ON THE SEVERITY OF THE EXPOSURE. SWALLOWING WILL LEAD TO A STRONG CORROSIVE EFFECT ON MOUTH AND THROAT AND TO THE DANGER OF PER FORATION OF ESOPHAGUS AND STOMACH.

First Aid:GENERAL INFORMATION: IMMEDIATELY REMOVE ANY CLOTHING SOILED BY THE PRODUCT. AFTER INHALATION: SUPPLY FRESH AIR. IF REQUIRED, PROVIDE ARTIFICIAL RESPIRATION. KEEP PATIENT WARM. SEEK IMMEDIATE MEDICAL A DVICE. AFTER SKIN CONTACT: IMMEDIATELY WASH WITH WATER AND SOAP AND RINSE THOROUGHLY. SEEK IMMEDIATE MEDICAL ADVICE. AFTER EYE CONTACT: RINSE OPENED EYE FOR SEVERAL MINUTES UNDER RUNNING WATER. THEN C ONSULT A DOCTOR. AFTER SWALLOWING SEEK IMMEDIATE MEDICAL ADVICE.

Autoignition Temp:Autoignition Temp Text:N/D Lower Limits:N/D

Upper Limits:N/D

Extinguishing Media:SPECIAL POWDER FOR METAL FIRES. DO NOT USE WATER. FOR SAFETY REASONS UNSUITABLE EXTINGUISHING AGENTS: WATER.

Fire Fighting Procedures:WEAR SELF-CONTAINED RESPIRATOR. WEAR FULLY PROTECTIVE IMPERVIOUS SUIT.

Unusual Fire/Explosion Hazard:CONTACT WITH WATER RELEASES HYDROGE N

(EXPLOSIVE).

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. KEEP UNPROTECTED PERSONS AWAY. ENSURE ADEQUATE VENTILATION. KEEP AWAY FROM IGNITION SOURCES. DO NOT ALLOW MATERIAL TO BE RELEASED TO THE ENVIRONMENT WITHOUT PROPER GOVERNMEN TAL PERMITS. PICK UP MECHANICALLY. DISPOSE CONTAMINATED MATERIAL AS WASTE. ENSURE ADEQUATE VENTILATION. DO NOT FLUSH WITH WATER OR AQUEOUS CLEANSING AGENTS. KEEP AWA Handling and Storage Precautions:HANDLE UNDER DRY PROTECTIVE GAS. KEEP CONTAINER TIGHTLY SEALED. STORE IN COOL, DRY PLACE IN TIGHTLY CLOSED CONTAINERS. ENSURE GOOD VENTILATION AT WORKPLACE. PROTECT FROM HUMIDITY AND WATER. KEEP IGNIT ION SOURCES AWAY.

Other Precautions:STORE AWAY FROM WATER/MOISTURE. STORE AWAY FROM OXIDIZING AGENTS. STORE UNDER DRY INERT GAS. AVOID CONTACT WITH

AIR/OXYGEN. KEEP CONTAINER TIGHTLY SEALED. STORE IN COOL, DRY CONDITIONS IN WELL SEALED CONTAINERS. STORE UNDER LOCK AND KEY AND WITH ACCESS RESTRICTED TO TECHNICAL EXPERTS OR THEIR ASSIST ANTS ONLY.

Respiratory Protection: PROPERLY OPERATING CHEMICAL FUME HOOD DESIGNED FOR HAZARDOUS CHEMICALS AND HAVING AN AVERAGE FACE VELOCITY OF AT LEAST 100 FEET PER MINUTE. USE SUITABLE RESPIRATOR WHEN HIGH CONCENT

RATIONS ARE PRESENT .

Ventilation:NOT REQUIRED.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection:SAFETY GLASSES. TIGHTLY SEALD GOGGLES. FULL FACE PROTECTION.

Other Protective Equipment: PROTECTIVE WORK CLOTHING.

Work Hygienic Practices: KEEP AWAY FROM FOODSTUFFS, BEVERAGES AND FEED. REMOVE ALL SOILED AND CONTAMINATED CLOTHING IMMEDIATELY. WASH HANDS BEFORE BREAKS AND AT THE END OF WORK. AVOID CONTACT WITH THE EYES AND SKIN.

Supplemental Safety and Health

CONT'D PRODUCT ID: MFR C

ODE: 12705, DESIGN CONTROL # 1161666. NSN IS

FOR CESIUM LAMP BUT MFR HAS PROVIDED A MSDS FOR CESIUM METAL. SEALED LAMP WILL BE NON-HAZARDOUS AS SUCH, BUT CESIUM METAL IS HAZARD OUS.

## HCC:R2

Boiling Pt:=690.C, 1274.F Melt/Freeze Pt:=28.9C, 84.F Decomp Temp:Decomp Text:NOT DETERMINED Vapor Pres:279C(534F): 1.33 HPA Vapor Density:1.892 G/CM Solubility in Water:REACTS VIOLENTLY Appearance and Odor:SILVER-COLORED ODORLE SS, SOLID.

Stability Indicator/Materials to Avoid:YES
WATER/MOISTURE, OXIDIZING AGENTS, ACIDS, HALOGENS.
Stability Condition to Avoid:DECOMPOSITION WILL NOT OCCUR IF USED AND STORED ACCORDING TO SPECIFICATIONS.
Hazardous Decomposition Products:EXPLOSIVE REACTION WITH WATER. CONTACT WITH WATER RELEASES FLAMMABLE GASES. REACTS WITH OXIDIZING AGENTS, ALCOHOLS, OXYGEN, CARBON DIOXIDE. SELF-IGNITING ON CONTACT WITH AIR AND DRY SURFACES. HYDROGEN.

Toxicological Information:SEE HEALTH HAZARDS. MATERIAL IS CORROSIVE AND HIGHLY FLAMMABLE, REACTS WITH WATER LIBERATING EXTREMELY FLAMMABLE GASES.

Ecological:DO NOT ALLOW THE MATERIAL TO BE RELEASED TO THE ENVIRONMENT WITHOUT PROPER GOVERNMENTAL PERMITS.

Waste Disposal Methods:RECOMMENDATION: CONSULT STATE, LOCAL OR NATIONAL REGULATIONS FOR PROPER DISPOSAL. UNCLEANED PACKAGINGS: RECOMMENDATION: DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS.

Transport Information: PSN: CESIUM, 4.3, UN1407, I.

Federal Regulatory Information: TSCA INVENTORY STATUS: THECOMPONENTS OF THIS PRODUCT

## ARE LISTED ON THE TSCA INVENTORY.

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