

B64-USARMY MISSILE COMMAND, REDSTONE ARSENAL -- LENS, AFOCAL ZOOM, 1002073-1 --  
6210-01-311-5162

===== Product Identification =====

Product ID:LENS, AFOCAL ZOOM, 1002073-1

MSDS Date:08/15/1996

FSC:6210

NIIN:01-311-5162

Status Code:A

MSDS Number: CJRGG

=== Responsible Party ===

Company Name:B64-USARMY MISSILE COMMAND, REDSTONE ARSENAL

Address:REDSTONE ARSENAL

City:REDSTONE ARSENAL

State:AL

ZIP:35898-5230

Country:US

Info Phone Num:205-955-8656, DSN 897-1421

Emerge

ncy Phone Num:201-327-7700

Preparer's Name:DOD HMIS/ DSCR-VBA

CAGE:TO381

=== Contractor Identification ===

Company Name:B64-USARMY MISSILE COMMAND, REDSTONE ARSENAL

Address:REDSTONE ARSENAL

Box:City:REDSTONE ARSENAL

State:AL

ZIP:35898-5230

Country:US

Phone:205-955-8656, DSN 897-1421

Contract Num:DAAH01-95-C-0178

CAGE:TO381

Company Name:DEFENSE SUPPLY CENTER RICHMOND

Address:8000 JEFFERSON DAVIS HWY

Box:City:RICHMOND

State:VA

ZIP:23297-5607

Country:US

Phone:804-279-4371

CAGE:99998

Company Name:HUG

HES DEFENSE COMMUNICATIONS CO,MAHWAH ELECTRO OPTICS CTR  
Address:1300 MACARTHUR BLVD  
Box:City:MAHWAH  
State:NJ  
ZIP:07430-2502  
Country:US  
Phone:201-327-7700  
CAGE:30881  
Company Name:THE BOEING CO  
Address:499 BOEING BLVD  
Box:240002  
City:HUNTSVILLE  
State:AL  
ZIP:35824-6402  
Country:US  
Phone:205-461-2715  
CAGE:3A768

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

Ingred Name:THORIUM-232  
CAS:7440-29-1  
RTECS #:XO6400000  
= Wt:.03  
Code:F

Ingred Name:OPTICS  
= Wt:99.97  
Code:F

===== Hazards Identification =====

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE AND CHRONIC: THIS ITEM IS AN  
ARTICLE THAT DOES NOT RESULT IN EXPOSURE TO A HAZARDOUS CHEMICAL  
UNDER NORMAL CONDITIONS OF USE. THE ITEM CONTAINS EIGHT GLASS  
LENSES IN SERIES, EACH IS COATED WITH A SMALL QUANTITY OF  
RADIOACTIVE THORIUM232. THE TOTAL RADIOACTIVE CAPACITY IS WITHIN

THE LIMITS PRESCRIBED FOR EXCEPTED PACKAGE ACTIVITY.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:NONE. AMOUNT OF RADIOACTIVITY IS WITHIN LIMITS  
ESTABLISHED FOR ARTICLES.  
Medical Cond Aggravated by Exposure:NONE.

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

First Aid:NONE REQUIRED UNDER NORMAL CONDITIONS OF USE.

===== Accidental Release Measures =====

Spill Release Procedures:IN CASE OF DAMAGE TO THE THORIUM COATED LENS  
TAKE APPROPRIATE SAFETY PRECAUTIONS SUITABLE FOR CLEANUP AND COLLECTION OF CONTAMINATED ITEMS, SUCH AS THE USE OF RUBBER GLOVES, TWEEZERS, TONGS, DAMP SPONGES AND DUST RESPIRATORS. TRANSFER TO LABELED CONTAINER FOR DISPOSAL.  
Neutralizing Agent:NONE.

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

Handling and Storage Precautions:STORE IN PROTECTED AREA.  
Other Precautions:PROTECT FROM PHYSICAL DAMAGE.

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

Respiratory Protection:NONE NORMALLY REQUIRED.  
Ventilation:NONE NORMALLY REQUIRED.  
Protective Gloves:NONE NORMALLY REQUIRED. IF HANDLING BROKEN LENS WEAR RUBBER GLOVES.  
Eye Protection:NONE NORMALLY REQUIRED.  
Other Protective Equipment:NONE NORMALLY REQUIRED.  
Work Hygienic Practices:NORMAL PRACTICES.  
Supplemental Safety and Health  
THIS ITEM IS AN ARTICLE AND EXEMPT FROM AN MSDS REQUIREMENT.

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

HCC:A2  
Appearance

ce and Odor:THIS ARTICLE IS A SERIES OF EIGHT THORIUM COATED  
LENS IN A SIGHTING DEVICE.

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

Stability Indicator/Materials to Avoid:YES

NONE KNOWN.

Stability Condition to Avoid:FIRE, PHYSICAL DAMAGE.

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:DISPOSE OF WASTE THROUGH A LICENSED COMMERCIAL  
RADIOACTIVE WASTE DISPOSAL AGENCY. OBSERVE ALL LO  
CAL, STATE AND  
FEDERAL REGULATIONS.

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

Transport Information:PROPER SHIPPING NAME: RADIOACTIVE MATERIAL,  
EXCEPTED PACKAGE, LIMITED QUANTITY OF MATERIAL,CLASS 7, UN 2910. NO  
LABEL REQUIRED, HOWEVER, THE PACKAGE MUST BEAR THE MARKING  
"RADIOACTIVE" ON AN INTERNAL SURFACE IN SUCH A MANNER THAT A  
WARNING OF THE PRESENCE OF RADIOACTIVE MATERIAL IS VISIBLE ON  
OPENING THE PACKAGE. RADIOACTIVE ISOTOPE, THORIUM 232  
, ACTIVITY =  
0.024 MICRO CURIE.

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