

ENV HEALTH & SAFETY DEVICES, DIV:CABOT CORP -- CESIUM (COMPONENT OF CESIUM BEAM FREQUENCY -- 6625-01-260-6905

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

Product ID:CESIUM (COMPONENT OF CESIUM BEAM FREQUENCY

MSDS Date:11/01/1985

FSC:6625

NIIN:01-260-6905

MSDS Number: BJFTV

=== Responsible Party ===

Company Name:ENV HEALTH & SAFETY DEVICES, DIV:CABOT CORP

Box:1296

City:READING

State:PA

ZIP:19603

Country:US

Info Phone Num:215-921-5000

Emergency Phone Num:215-921-5000;800-424-9300(CHEMTREC)

Preparer's Name:WJ HETRICK

CAGE:NO315

=== Contractor Identification ===

Company Name:CABOT CORP ALUMINUM MASTER ALLOY BUSINESS UNIT

Address:601 PENN ST

Box:1296

City:READING

State:PA

ZIP:19601

Country:US

Phone:215-921-5000,CHEMTREC 800-424-9300

CAGE:70787

Company Name:ENV HEALTH & SAFETY SERVICES DIV CABOT CORP

Address:601 PENN ST

Box:1296

City:READING

State:PA

ZIP:19603

Country:US

Phone:215-921-5000

CAGE:NO315

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Composition/Information on Ingredients  
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Ingred Name:CESIUM METAL  
CAS:7440-46-2  
RTECS #:FK9225000  
Fraction by Wt: 100%

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Hazards Identification  
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHAL:DUST,FUME,MIST/GASES CNTNING  
THIS MATL OR DECOMP PRODS MAY RSLT FROM  
MIXING,  
HEATING,BLENDING,THERMAL DECOMP,CHEM RXN OR SIM OPERATION  
WHICH GENERATE AIRBORNE PARTICULATE/GASES.INGEST:WILL CAUSE IMMEDIATE  
DESTRUCT OF TISS.SKIN:LIQ,DUST,FUME,MIST,CONTACT WILL CAUSE IMMEDIATE  
DESTRUCT OF TISS/BURNS.EYES:PARTICULATE(SUP DAT)  
Explanation of Carcinogenicity:NOT RELEVANT  
Effects of Overexposure:ACUTE:THIS MATL MAY IGNITE ON CONTACT  
W/MOISTURE&CAUSES SEV BURNS TO TISS ON CNTCT.CHRONIC:CESIUM HAS  
BEEN RPTED TO REPLACE POTASSIUM IN ANIMAL STUDIES.INDICATIONS ARE

OVEREXPOS COULD LEAD TO MUSC&RED BLOOD CELL ACCUM W/POSS  
NEUROMUSCULAR EFFECTS ALTHOUGH NO CASES OF INDUSTRIAL INJURY HAVE  
BEEN REPORTED.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN & EYE DISORDERS  
OR DAMAGED MUC MEMB MAY BE AGGRAV BY UNDUE EXPOS TO DUSTS, MISTS.  
IF PRIOR DAMAGE OR DISEASE TO THE NEUROLOGIC (NERVOUS),  
CIRCULATORY, HEMATOLOGIC (BLOOD) OR (ING 2)

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First Aid Measures  
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First Aid:INHAL:BRTHING DFCLT CAUSED BY INHAL OF DUST,FUME OR MIST REQUIRES  
REMOVAL TO FRESH AIR.IF BRTHING HAS STOPPED,PERFORM ARTIFICIAL  
RESP&OBTAIN MED ASSTC AT ONCE.INGEST:SWALLOWING LIQ,DUST OR POWDER  
CAN BE TREATED BY THE AFFECTED PERSON SWALLOW LRG QTY OF  
H<sub>2</sub>O,MILK.GET MD AT ONCE.SKIN:CONT W/LIQ,DUST OR POWDER WILL CAUSE  
SEV BURNS.FLUSH W/COPIOUS AMTS OF H<sub>2</sub>O.GET MD.EYES:FLUSH W/COPIOUS  
AMTS H<sub>2</sub>O.

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Fire Fighting Measures  
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Flash Point:NONE  
Lower Limits:NONE  
Uppe

r Limits:NONE

Extinguishing Media:THIS MATERIAL IS FLAMMABLE. USE DRY SAND, DRY GRAPHITE, OR CLASS "D" EXTINGUISHING AGENT.

Fire Fighting Procedures:IF THIS MATERIAL IS INVOLVED IN A FIRE-FIGHTING TASK, USE A FULLFACE, AIR SUPPLIED POSITIVE PRESSURE RESPIRATORY DEVICE.

Unusual Fire/Explosion Hazard:THIS MATERIAL WILL REACT VIOLENTLY WITH WATER AND IS EXPLOSIVE IN MOIST AIR OR WATER. EXTREME CAUTION IS NECESSARY.

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

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Spill Release Procedures:MATL MAY IGNITE SPONT IN AIR.COVER W/QTYS DRY SAND,GRAPHITE,CLASS "D" FIRE EXTING AGENT.ALLOW MATL TO OXID TO PWDR,DUST.CAUTION SHOULD BE TAKEN TO MINIMIZE AIRBORNE GENERATION OF PWDR,DUST&AVOID CONTA M OF AIR AND H\*20.DRY CLEAN UP METHODS TO BE USED.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:GLASS AMPOULES&STAINLESS STEEL CYLS SHOULD

BE USED TO HANDLE/TRANSPORT MATL.BECAUSE OF REACTV OF MATL,HNDLING,STOR&TRANSPORT SHOULD BE UNDER VACUUM.

Other Precautions:THIS MATL IS NOT STABLE IN AIR AND MUST BE STORED UNDER VACUUM OR AN INERT ATMOSPHERE OR SUBMERGED IN MINERAL OIL. IT SHOULD BE KEPT AWAY FROM ACIDS, OXIDIZERS AND COMBUSTIBLES AND STORED IN A DRY ARE A.

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

Respiratory Protection:USE NIOSH APPROVED RESP AS SPECIFIED BY AN INDUSTRIAL HYGIE

NIST OR QUALIFIED SAFETY PROFESSIONAL.LUNG FUNCTION TESTS ARE RECOMMENDED FOR USERS OF NEGATIVE PRESSURE DEVICES.

Ventilation:LOCAL EXHAUST VENTILATION SHOULD BE USED TO CONTROL EXPOSURE TO AIRBORNE DUST, MIST OR FUME WHENEVER POSSIBLE.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:PROTECTIVE CLOTHING SUCH AS UNIFORMS,DISPOSABLE COVERALLS,SAFETY SHOES,ETC.,MAY BE REQUIRED DURING HANDLING OPERATIONS.

Work Hygienic Practi

ces:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

HEALTH HAZ: DANGEROUS TO EYE & SURROUNDNG TISSUE. CONTACT W/EYE OR SURROUNDING SKIN WILL CAUSE IMMED DESTRUCTION OF TISSUE & BURNS.

NOTE:CESIUM IS THE HAZARDOUS COMPONENT OF CESIUM BEAM FREQUENCY STANDARD DEVICE.

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

Boiling Pt:B.P. Text:1301F,705C

Melt/Freeze Pt:M.P/F.P Text:83.3F,28.5C

Vapor Pres:1.0 @ 279C

Solubility in Water:DECOMPOSES

Appearance

and Odor:LIQUID OR SOLID-SILVER/WHITE COLOR-NO ODOR

Percent Volatiles by Volume:NONE

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

AVOID CONTACT WITH AIR, OXYGEN OR WATER.

Stability Condition to Avoid:EXPOSURE TO AIR, MOISTURE, CHLORINE & PHOSPHOROUS.

Hazardous Decomposition Products:VARIOUS ELEMENTAL CONSTITUENTS OR CMPDS MAY GENERATE RESULT OF HEATING THERMAL DECOMP OR CHEM REACTION.EXERCISE CAUTION.

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

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Waste Disposal Methods:PRIOR TO DISPOS CONSIDER IF MATL HAS RECOVERY VALUE.STATE OR FED REGS MAY REQUIRE SPEC LABELING,PACKING,STOR,TRANSPORTATION&DISPOS PROCS.CONT AN ENVIRONMENTAL ENGINEER OR CONSULTANT FAMILAR WITH WASTE D ISPOS REGULATIONS.

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