

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

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

Ingred Name:CESIUM METAL

CAS:7440-46-2

RTECS #:FK9225000

Fraction by Wt: 100%

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

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)

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

First Aid:INHAL:BRTHING DFCLT CAUS

ED BY INHAL OF DUST,FUME OR MIST REQS

REMOVAL TO FRESH AIR.IF BRTHING HAS STOPPED,PERFORM ARTF

RESP&OBTAIN MED ASSTC AT ONCE.INGEST:SWALLOWING LIQ,DUST OR POWDER

CAN BE TREATED BY THE AFFECTED PERSON SWALLOW LRG QTYS OF

H\*20,MILK.GET MD AT ONCE.SKIN:CONT W/LIQ,DUST OR POWDER WILL CAUSE

SEV BURNS.FLUSH W/COPIOUS AMTS OF H\*20.GET MD.EYES:FLUSH W/COPIOUS

AMTS H\*20.

===== Fire Fighting Measures =====

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\*2O.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 STA  
NDARD 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  
LBLING,PACKING,STOR,TRANSPORTATION&DISPOS PROCS.CONT AN  
ENVIRONMENTAL ENGINEER OR CONSULTANT FAMILAR WITH WASTE D ISPOS  
REGULATIONS.

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