

ATLANTIC METALS AND ALLOYS INC -- CADMIUM OXIDE -- 6810-00-281-8804

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

Product ID:CADMIUM OXIDE

MSDS Date:12/13/1993

FSC:6810

NIIN:00-281-8804

Status Code:A

MSDS Number: CJJBS

=== Responsible Party ===

Company Name:ATLANTIC METALS AND ALLOYS INC

Box:386

City:OLD GREENWICH

State:CT

ZIP:06870

Country:US

Info Phone Num:203-359-8881

Emergency Phone Num:203-359-8881

Res

p. Party Other MSDS Num.:REFERENCE CODE: 1036

Chemtec Ind/Phone:(800)424-9300

CAGE:8Y106

=== Contractor Identification ===

Company Name:ATLANTIC METALS & ALLOYS INC

Box:386

City:OLD GREENWICH

State:CT

ZIP:06870

Country:US

Phone:203-359-8881

Contract Num:SP0450-99-M-C739

CAGE:8Y106

Company Name:DEFENSE SUPPLY CENTER RICHMOND, ATTN: DSCR-VBA

Address:8000 JEFFERSON DAVIS HIGHWAY

Box:City:RICHMOND

State:VA

ZIP:23297-5607

Country:US

Phone:804-279-4371, DSN 695-4371

CAGE:SO004

===== Composi

tion/Information on Ingredients =====

Ingred Name:CADMIUM OXIDE (SARA III)
CAS:1306-19-0
RTECS #:EV1925000
= Wt:100.
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.005 MG/M3 (CD)
ACGIH TLV:0.05 MG(CD)/M3; 9293

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:TARGET ORGANS:R
ESPIRATORY SYSTEM,
KIDNEY, LIVER, PROSTATE, BLOOD. ACUTE:SKIN CONTACT-MAY CAUSE
IRRITATION. EYE CONTACT-MAY CAUSE IRRITATION. INGESTED-NONE KNOWN
OR ANTICIPATED. INHALED-(CADMIUM) PULMO NARY EDEMA, DYSPNA, COUGH,
TIGHT CHEST, SUBSTERNAL PAIN, HEADACHE, CHILLS, MUSCLE ACHES,
NASUEA, DIARRHEA AND ANOSMIA. CHRONIC:SKIN CONTACT-MAY CAUSE
DERMATITIS. EYE CONTACT-MAY CAUSE CONJUNCTIVITIS. INGESTION-NONE
KNOWN OR ANTICIPATED. INHALED (CADMIUM)-EMPHYSEMA, RENAL & LIVER
D
AMAGE, WEIGHT LOSS, ULCERATION OF NASAL SEPTUM. STUDIES SUGGEST
THAT CADMIUM DUST & FUME INCREASE THE RISKS FOR PROSTAT E,
RESPIRATORY & GENITOURINARY CANCERS.
Explanation of Carcinogenicity:LISTED AS A SUSPECTED OR CONFIRMED
CARCINOGEN BY: IARC, NTP, OSHA, ACGIH & NIOSH.
Effects of Overexposure:ACUTE: SKIN CONTACT-MAY CAUSE IRRITATION. EYE
CONTACT-MAY CAUSE IRRITATION. INHALED-(CADMIUM) PULMONARY EDEMA,
DYSPNA, COUGH, TIGHT CHEST, SUBSTERNAL PAIN, HEADACHE, CHILLS,
MUSCL
E ACHES, NASUEA, DIAR RHEA AND ANOSMIA. CHRONIC: SKIN
CONTACT-MAY CAUSE DERMATITIS. EYE CONTACT-MAY CAUSE CONJUNCTIVITIS.
INHALED (CADMIUM)-EMPHYSEMA, RENAL & LIVER DAMAGE, WEIGHT LOSS,
ULCERATION OF NASAL SEPTUM. STUDIES SUGGEST THAT CADMIUM DUST &
FUME INCREASE THE RISKS FOR PROSTATE, RESPIRATORY & GENITOURINARY
CANCERS.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:SKIN

CONTACT: REMOVE CONTAMINATED CLOTHES. WASH AFFECTED AREA(S) WITH SOAP OR MILD DETERGENT & LARGE AMOUNTS OF WATER. SEEK MEDICAL ATTENTION. EYE CONTACT: WASH EYES WITH LARGE AMOUNTS OF WATER (15 MINUTE MINIMUM). SEEK MEDICAL ATTENTION. INGESTED: IF VICTIM IS CONSCIOUS INDUCE VOMITING. SEEK MEDICAL ATTENTION. INHALED: REMOVE VICTIM TO FRESH AIR ENVIRONMENT. IF BREATHING IS DIFFICULT ADMINISTER O₂. IF BREATHING STOPPED, ADMINISTER ARTIFICIAL RESPIRATION. KEEP VICTIM WARM & CALM. SEEK MEDICAL ATTENTION.

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

Flash Point Method:OC
Flash Point:=-2760.C, 5000.F
Autoignition Temp:Autoignition Temp Text:N/D
Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, HALON, OR ALCOHOL FOAM. WATER MAYBE INEFFECTIVE AS AN EXTINGUISHING AGENT, BUT WATER SPRAY OR FOG MAY BE USED AS COOLING AGENT FOR CLOSED CONTAINERS.
Fire Fighting Procedures:WHEN DEALING WITH KNOWN OR UNKNOWN THERMAL DECOMPOSITION PRODUCTS THE USE OF SELF-CONTAINED BREATHING APPARATUS (SCBA) AND STRUCTURAL FIRE FIGHTERS PROTECTIVE CLOTHING WILL PROVIDE LIMITED PROTECTION.
Unusual Fire/Explosion Hazard:MAY RELEASE TOXIC & HAZARDOUS FUMES OF CADMIUM.

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

Spill Release Procedures:INFORM SAFETY/RESPONSE PERSONNEL. EVACUATE AREA IF LARGE RELEASE. CLEAN-UP PERSONNEL MUST WEAR RESPIRATORY PROTECTION & SUITABLE PROTECTIVE CLOTHING. CONFINE SPILL. PROVIDE ADEQUATE VENTILATION. KEEP OUT OF SEWERS & OPEN WATER SHEDS. USE VACUUM TO PICK UP OR ABSORBENT MATERIAL & USE A BROOM & SHOVEL. PLACE RETRIEVED MATERIAL IN A CLEAN, DRY CONTAINER & COVER. ISOLATE & DENY ENTRY.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NO SPECIAL STORAGE REQUIREMENTS NOTED. HANDLE AS ANY HAZARDOUS CHEMICAL.
Other Precautions:NO FOOD OR

SMOKING IN WORK AREAS.

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

Respiratory Protection:IF EXPOSURES CANNOT BE MAINTAINED AT OR BELOW ESTABLISHED OSHA GUIDELINES, RESPIRATORY PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH 29 CFR 1910.134 REQUIREMENTS.

Ventilation:PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MAINTAIN EXPOSURES BELOW OSHA GUIDELINES (29CFR1910.1000 SUBPART Z)

Protective Gloves:CHEMICAL RESISTANT GLOVES AS NEED TO PREVENT SKIN

CONTACT.

Eye Protection:WEAR SPLASH PROOF OR DUST PROOF GOGGLES.

Other Protective Equipment:WEAR APPROPRIATE PROTECTIVE CLOTHING AS NEED TO PREVENT SKIN CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING MATERIAL. CLEAN CONTAMINATED CLOTHING & EQUIPMENT BEFORE REUSE.

Supplemental Safety and Health

RESPIRATORS: KNOWN CONCENTRATION UNDER PEL WITH OXYGEN GREATER THAN 19.5%: NO RESPIRATOR REQUIRED. KNOWN CONCENTRATIONS GREATER THAN PEL WITH OXYGEN LEVELS GREATER THAN

19.5%: AIR-PURIFYING RESPIRATOR

WITH HEPA FILTER. UNKNOWN CONCENTRATIONS OR OXYGEN LEVELS LESS THAN 19.5%: SCBA W/FULL FACEPIECE/POSITIVE PRESSURE.

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

HCC:T4

Boiling Pt:B.P. Text:NO DATA

Melt/Freeze Pt:M.P/F.P Text:NO DATA

Vapor Pres:ESSENTIALLY ZERO

Vapor Density:NO DATA

Spec Gravity:8.15

Solubility in Water:INSOLUBLE

Appearance and Odor:BROWN TO RED ODORLESS POWDER

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===== Stability and Reactivity Data =

Stability Indicator/Materials to Avoid:YES

CADMIUM STRONG OXIDIZERS, ELEMENTARY SULFUR, SELENIUM TELLURIUM.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:MAY RELEASE TOXIC AND HAZARDOUS FUMES OF CADMIUM.

Conditions to Avoid Polymerization:HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

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

Toxicological Information:NONE SPECIFIED BY MAN

UFACTURER.

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Ecological Information
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Ecological:AQUATIC TOXICITY: 1000 PPM/FISH/LC50/FRESH WATER.

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Disposal Considerations
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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE & LOCAL DISPOSAL REGULATIONS. CONSULT YOUR ATTORNEY OR APPROPRIATE REGULATORY OFFICIALS FOR INFORMATION ON SUCH DISPOSAL.

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MSDS Transport Information
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Transport Information:SHIPPING NAME: CADMIUM COMPOUNDS, 6.1, UN2570, PGIII. GUIDE NUMBER: 53. LABELS: KEEP AWAY FROM FOODS.

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Regulatory Information
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SARA Title III Information:SECTION 312 40 CFR 370.40: FIRE, HEALTH-ACUTE & CHRONIC. SECTION 313 40 CFR 372.85: CADMIUM COMPOUNDS.

Federal Regulatory Information:THIS MATERIAL OR THE COMPONENTS OF THIS MATERIAL ARE INCLUDED IN THE TOXIC CHEMICAL INVENTORY AS REQUIRED IN SECTION 8 (B) OF THE TOXIC SUBSTANCE CONTROL ACT (PUBLIC LAW 94-469) & IS CODIFIED IN 40 CF R 720. EPA HAZARDOUS WASTE NUMBER (40 CFR 261.33): N/A. EPA REPORTABLE QUANTITY (40 CFR 117.3): 1 LB CADMIUM COMPOUNDS.

State Regulatory Information:NONE SPECIFIED BY MANUFACTURER.

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Other Information
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