

CERTANIUM ALLOYS & RESEARCH CO -- HEAT SHIELD 10 LBS -- 3439-01-249-4451

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

Product ID:HEAT SHIELD 10 LBS

MSDS Date:11/20/1991

FSC:3439

NIIN:01-249-4451

MSDS Number: BPBQF

=== Responsible Party ===

Company Name:CERTANIUM ALLOYS & RESEARCH CO

Address:4500 EUCLID AVENUE

City:CLEVELAND

State:OH

ZIP:44103-1395

Country:US

Info Phone Num:216-391-8300

Emergency Phone Num:2

16-391-8300

CAGE:61404

=== Contractor Identification ===

Company Name:CERTANIUM ALLOYS & RESEARCH CO

Address:4500 EUCLID AVENUE

Box:City:CLEVELAND

State:OH

ZIP:44103-1395

Country:US

Phone:216-391-8300

CAGE:61404

Company Name:S & M DISTRIBUTORS INC

Address:302 DOGWOOD CIR

Box:City:SUMMERVILLE

State:SC

ZIP:29483

Country:US

Phone:803-871-3210

CAGE:0BZ67

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

Ingred Name:A-(HYDROXYMETHYLAMINO)ETHANOL (COSAN 91)/2-HYDROXYMETHYL  
AM

INO ETHANOL  
CAS:34375-28-5  
Fraction by Wt: 3 - 3%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:TETRAPOTASSIUM PYROPHOSPHATE  
CAS:7320-34-5  
RTECS #:JL6735000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:CELLULOSE (PAPER FIBER)  
CAS:9004-34-6  
RTECS #:FJ5691460  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9293

Ingred Name:TITANIUM DIOXIDE  
CAS:13463-67-7  
RTECS #:XR2275000  
Fraction by Wt: 0.1 - 1%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:  
10 MG/M3 TDUST; 9293

Ingred Name:HYDRATED METAL SILICATE/HYDRATED ALUMINUM MAGNESIUM  
SILICATE  
Fraction by Wt: 3 - 5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:

ACUTE- WELDING FUMES MAY CAUSE

DISCOMFORT, DIZZINESS, NAUSEA & DRYNESS/IRRITATION OF THE THROAT. MAY CAUSE SKIN & EYE IRRITATION. HARMFUL IF SWALLOWED. CHRONIC- WELDING FUMES, GASES/DUST MAY CAUSE PUL MONARY IRRITATION/PNEUMONITIS.

Effects of Overexposure:WELDING FUMES MAY CAUSE DISCOMFORT, DIZZINESS, NAUSEA & DRYNESS/IRRITATION OF THE THROAT. MAY CAUSE SKIN & EYE IRRITATION. HARMFUL IF SWALLOWED.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING RESPIRATO

RY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE WELDING FUMES.

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

First Aid:GET MEDICAL CARE IF NEEDED. EYES:FLUSH WITH WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. SKIN:WASH THOROUGHLY WITH SOAP & WATER. INHALATION:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. INGESTION:C ALL A DOCTOR. SHOW MSDS OR LABEL. INDUCE VOMITING.

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

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sh Point:NONE

Extinguishing Media:WATER SPRAY, CO2, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS AWAY.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:CONTAINERS MAY RUPTURE DUE TO STEAM PRESSURE.

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

Spill Release Procedures:CONTAIN AND PICK UP WASTE MATERIALS. PUT IN A SEALED APPROVED CONTAINER FOR DISPOSAL.

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

Handling and Storage Precautions:STORAGE- KEEP MATERIAL IN CLOSED CONTAINERS AWAY FROM STRONG OXIDIZERS & ACIDS. KEEP FROM FREEZING.

Other Precautions:POISON! DO NOT TAKE INTERNALLY. NO FOOD/SMOKING IN WORK AREAS. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING FUMES AND VAPORS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. KEEP AWAY FROM REACH OF CHI LDREN. USE ONLY IN WEL

## L VENTILATED AREAS

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW PEL, TLV OR STEL OR USE AN APPROVED HOOD.

Ventilation:LOCAL EXHAUST AND GENERAL VENTILATION ARE REQUIRED.

Protective Gloves:WELDER'S GLOVE

Eye Protection:PROTECTIVE FACE SHIELD

Other Protective Equ

ipment:EYE WASH STATION, APRONS, HATS, ARM &

SHOULDER PROTECTION, AS WELL AS DARK SUBSTANTIAL CLOTHING.

Work Hygienic Practices:WEAR HEAD AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.

Supplemental Safety and Health

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

HCC:N1

Boiling Pt:B.P. Text:212F,100C

Melt/Freeze Pt:M.P/F.P Text:32.0F,0.0C

Vapor Pres:22

Vapor Density:0.6

Spec Gravity:1.07

pH:8.7

Evaporation Rate & R

eference:1 (WATER=1)

Solubility in Water:MISCIBLE

Appearance and Odor:ORANGE PASTE WITH MILD ODOR

Percent Volatiles by Volume:81

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS AND ACIDS

Stability Condition to Avoid:FIRE

Hazardous Decomposition Products:METAL OXIDES. DECOMPOSITION PRODUCTS INCLUDE THOSE ORIGINIATING FROM INGREDIENTS + THOSE FROM THE BASE METAL & COATING.

### ===== Dispos

al Considerations =====

Waste Disposal Methods:DISPOSE OF AS A NON-HAZARDOUS WASTE. OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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