

FEDERAL BRONZE PRODUCTS INC -- COPPER ALLOY CASTING -- 4730-01-113-9247

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Product Identification
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Product ID:COPPER ALLOY CASTING

MSDS Date:04/10/1989

FSC:4730

NIIN:01-113-9247

MSDS Number: BPVQW

=== Responsible Party ===

Company Name:FEDERAL BRONZE PRODUCTS INC

Address:50 WHEELER POINT RD.

City:NEWARK

State:NJ

ZIP:07105

Country:US

Info Phone Num:201-589-4930

Emergency Phone Num:201-589-

4930

CAGE:8A838

=== Contractor Identification ===

Company Name:FEDERAL BRONZE PRODUCTS INC

Address:50 WHEELER POINT RD.

Box:City:NEWARK

State:NJ

ZIP:07105

Country:US

Phone:201-589-4930

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Composition/Information on Ingredients
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Ingred Name:ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15MG/M3 DUST/5 FUME

ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name:ANTIMONY (SARA III)

CAS:7440-36-0

RTECS #:CC4025000

Other REC

Limits:NONE RECOMMENDED
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG SB/M3; 9293
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3 DUST
ACGIH TLV:1 MG/M3 DUST
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG/M3 AS FE2O3
ACGIH TLV:5 MG/M3 AS FE2O3

Ingred Name:LEAD (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
O
ther REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG/M3;1910.1025
ACGIH TLV:0.15 MG/M3;DUST 9293
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10MG/M3 AS MGO
ACGIH TLV:10MG/M3 AS MGO

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Other REC Limit

s:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9293

Ingred Name:PHOSPHOROUS (YELLOW) (SARA III)
CAS:7723-14-0
RTECS #:TH3500000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.1 MG/M3; 9293
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH T
LV:2 MG/M3; 9293

Ingred Name:ZINC (SARA III)
CAS:7440-66-6
RTECS #:ZG8600000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG ZNO/M3
ACGIH TLV:5 MG ZNO/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:SILICA
CAS:14808-60-7
RTECS #:VV7330000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE TABLE Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:Y

ES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS THIS MATERIAL IS NON-HAZARDOUS.PROCESSING BY GRINDING,BUFFING,HEATING,WELDING PRODUCES DUST AND FUMES WHICH CAUSE ACUTE EFFECTS RANGING FROM IRRITATION TO DERMATITIS AND A WIDE RANGE OF CHRONIC EFFECTS.THESE HAZARDSARE BEYOND THE SCOPE OF THIS DOCUMENT, BUT ARE COVERED IN THE ORIGINAL MSDS.

Explanation of Carcinogenicity:PERTAINS ONLY TO DUST AND FUMES:LEAD-NTP,IARC.ANTIMONY TRIOXIDE-AC

GIH.SILICA-IARC,RTECS.NICKEL-NTP,IARC.

Effects of Overexposure:THE ITEM IS NON-HAZARDOUS UNLESS PROCESSED BY HEATING OR GRINDING. THE SIGNS AND SYMPTOMS ARE DEALT WITH RIGOROUSLY BY ELEMENT IN THE ORIGINAL MSDS.

Medical Cond Aggravated by Exposure:SMOKERS ARE AT INCREASED RISK FROM EXPOSURE TO FUMES AND DUST.

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

First Aid:EYES;FLUSH WELL WITH RUNNING WATER TO REMOVE PARTICULATES.CALL PHYSICIAN.SKIN:VACUUM OFF EXCESS DUST.WASH WITH SOAP AND WATER.INHAL:REMOVE TO FRESH AIR.CALL PHYSICIAN.INGEST:UNLIKELY TO OCCUR.IF NEEDED CALL PHYSICIAN.

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

Extinguishing Media:USE MIXTURES OF DRY CHEMICALS OR SAND.
Fire Fighting Procedures:THIS MATERIAL IS NOT COMBUSTIBLE UNDER NORMAL CONDITIONS.FIRE FIGHTERS SHOULD USE SELF-CONTAINED BREATHING APPARATUS IN FIGHTING THE SURROUNDING FIRE.
Unusual Fire/Explosion Hazard:MODERATE FIRE AND EXPLOSION HAZARD WHEN MATERIAL IS A DUST AND EXPOSED TO HEAT,FLAMES,CHEMICAL REACTIONS OR STRONG OXIDIZERS.

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

Spill Release Procedures:UNLIKELY TO OCCURE. IN CLEANING UP DUST,PERSONNEL SHOULD USE RESPIRATORS AND PROTECTIVE CLOTHING.IF BULK MATERIAL IS SPILLED,VACUUM OR WET SWEEP;AVOID MAKING DUST.
Neutralizing Agent:NOT APPLICABLE.

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

Handling an

d Storage Precautions:STORE MATERIAL AWAY FROM INCOMPATIBLE MATERIAL. KEEP SOURCES OF IGNITION AWAY FROM DUST.

Other Precautions:NONE.

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

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR FOR FUMES OR DUST.SELECT ACCORDING TO THE SITUATION.

Ventilation:LOCAL OR GENERAL(MECHANICAL) TO REMOVE DUST OR FUMES.

Protective Gloves:USE TYPE APPROPRIATE FOR TASK.

Eye Protection:SAFETY GLASSES WITH SIDESHIELD(MINIMUM)

Other Prote

ctive Equipment:FACESHIELD REQUIRED FOR GRINDING AND MELTING(WITH TINTED GLASS).HAVE EYE WASH,SHOWER AND WATER AVAILABLE.

Work Hygienic Practices:NO FOOD IN WORK AREA.WASH BEFORE LEAVING WORK.SEPERATE WORK CLOTHING FROM STREET CLOTHING.

Supplemental Safety and Health

THIS MATERIAL IS CONSIDERED TO BE AN ARTICLE IN NORMAL USE. IT BECOMES HAZARDOUS WHEN PROCESSED BY HEATING OR GRINDING. AS A FULL DESCRIPTION OF THESE HAZARDS IS BEYOND THE SCOPE OF THIS DOCUMENT, IT IS THE R

ESPONSIBILITY OF THE USER TO REFER TO THE ORIGINAL MSDS BEFORE ANY FURTHER PROCESSING IS DONE.

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:1550F,843C

Spec Gravity:7.5-9.0

Solubility in Water:NEGLIGIBLE

Appearance and Odor:YELLOW TO REDDISH SOLID;NO ODOR.

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES
ACIDS,BASES AND STRONG OXIDIZERS.

St

ability Condition to Avoid:MOLTEN METAL MAY REACT VIOLENTLY WITH WATER.

Hazardous Decomposition Products:METAL FUMES FROM HEATING.GRINDING MAY RELEASE SILICA.

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

Waste Disposal Methods:IN CLEANING UP DUST, PERSONNEL SHOULD USE RESPIRATORS AND PROTECTIVE CLOTHING.DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

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ion is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.