

THERMACOTE WELCO CO -- PHOS-BRONZE A -- 3439-00-255-8943

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

Product ID:PHOS-BRONZE A
MSDS Date:07/01/1993
FSC:3439
NIIN:00-255-8943
MSDS Number: BSVPW
=== Responsible Party ===
Company Name:THERMACOTE WELCO CO
Address:HWY 161 TORK RD
Box:69
City:KINGS MOUNTAIN
State:NC
ZIP:28086
Country:US
Emergency Phone Num:CHEMTREC, 800-424-9300
CAGE:0AES5

=== Contractor Identification ===

Company Name:THERMACOTE WELCO CO
Address:HWY 161 TORK RD
Box:City:KINGS MOUNTAIN
State:NC
ZIP:28086
Country:US
CAGE:0AES5
Company Name:THERMACOTE-WELCO CO SUB OF FOSTER WHEELER CORP
Address:YORK RD
Box:828
City:KINGS MOUNTAIN
State:NC
ZIP:28086
Country:US
CAGE:24559

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

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2 MG/M3 FUME; 9394
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ZINC OXIDE
CAS:1314-13-2
RTECS #:ZH4810000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10MG/M3 TDUST; 9394

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9394

Ingred Name:TIN
 CAS:7440-31-5
 RTECS #:XP7320000
 Other REC Limits:NONE RECOMMENDED
 OSHA PEL:2 MG/M3
 ACGIH TLV:2 MG/M3; 9394

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; 9394

Ingred Name:SILICON
 CAS:7440-21-3
 RTECS #:VW0400000
 Other REC Limits:NONE RECOMMENDED
 OSHA PEL:10 MG/M3 TDUST
 ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:MANGANESE (SARA III)
 CAS:7439-96-5
 RTECS #:OO9275000
 Other REC Limits:NONE RECOMMENDED
 OSHA PEL:C 5 MG/M3
 ACGIH TLV:5 MG/M3, DUST; 9394

Ingred Name:IRON OXIDE
 CAS:1309-37-1
 RTECS #:NO7400000
 Other REC Limits:NONE RECOMMENDED
 OSHA PEL:10 MG/M3 (FE)
 ACGIH TLV:5MG(FE)/M3FUME,B2;94

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:0.02 PPM; 9394
 EPA Rpt Qty:1 LB
 DOT Rpt Qty:1 LB

Ingred Name:LEAD (SARA III)
 CAS:7439-92-1
 RTECS #:OF7525000
 Other REC Limits:NONE RECOMMENDED
 OSHA PEL:SEE 1910.1025
 ACGIH TLV:0.15 MG/M3,DUST;9394
 EPA Rpt Qty:1 LB
 DOT Rpt Qty:1 LB

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 ===== Hazards Identification =====
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Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
 Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
 Health Hazards Acute and Chronic:UNDER NORMAL HANDLING AND USE,

EXPOSURE PRESENTS FEW HEALTH HAZARDS. THERMAL CUTTING AND MELTING OF COPPER MAY PRODUCE FUMES CONTAINING THE COMPONENT ELEMENTS. BREATHING THESE FUMES MAY PRESENT HEALTH HAZARDS. OVEREXPOSURE TO DUSTS AND FUMES MAY CAUSE SKIN, MOUTH, & EYE IRRITATION AND LUNG CHANGES (PULMONARY DISEASE).

Explanation of Carcinogenicity:NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL CANCER-CAUSING AGENT BY NTP/IARC.

Effects of Overexposure:MAY CAUSE SKIN, NOSE, MOUTH AND EYE IRRITATION AND LUNG CHANGES IN WORKERS, POTENTIALLY LEADING TO PULMONARY DISEASES. DUSTS MAY RESULT IN A BENIGN PNEUMOCONIOSIS (STANOSIS). FUMES OF COPPER, MANGANES E AND ZINC OXIDE MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS. COPPER MAY CAUSE SKIN & HAIR DISCOLORATION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES- FLUSH WITH WATER. GET MEDICAL HELP. SKIN- BRUSH OFF EXCESS DUST. WASH AREA WITH SOAP AND WATER. INHALATION- REMOVE TO FRESH AIR. GET MEDICAL ATTENTION. INGESTION- GET MEDICAL ATTENTION IF LAR GE QUANTITIES OF MATERIAL HAVE BEEN INGESTED.

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

Extinguishing Media:USE SPECIAL MIXTURES OF DRY CHEMICAL. DO NOT USE WATER OR MOIST SAND.

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

Unusual Fire/Explosion Hazard:SOLID, MASSIVE FORM OF MATERIAL IS NOT COMBUSTIBLE UNDER ORDINARY CONDITIONS. HAZARDS ARE MODERATE WHEN MATERIAL IS IN FORM OF DUST & EXPOSED TO HEAT OR FLAME.

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

Spill Release Procedures:WARN OTHERS OF SPILL. PUT ON PROPER PROTECTIVE EQUIPMENT AND CLOTHING. SWEEP OR VACUUM UP SOLIDS BEING CARDFUL NOT TO RAISE DUST LEVELS. FOR MOLTEN SPILLS, KEEP AWAY FROM COMBUSTIBLES AND WATER. VEN TILATE FUMES AND LET COOL BEFORE REMOVAL.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:NONE

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

Respiratory Protection:VENTILATE AS NEEDED. USE NIOSH-APPROVED RESPIRATORY EQUIPMENT.

Ventilation:VENTILATE AS NECESSARY.

Protective Gloves:PROTECTIVE GLOVES RECOMMENDED.

Eye Protection:USE DUST PROOF SAFETY GOGGLES.

Other Protective Equipment:USE PROTECTIVE CLOTHING.

Work Hygienic Practices:WASH HANDS BEFORE EATING, DRINKING OR SMOKING, AND SHOWER AND CHANGE CLOTHING BEFORE LEAVING WORK.

Supplemental Safety and Health
NONE

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:880C-1150C

Spec Gravity:8.33-8.94

Solubility in Water:INSOLUBLE

Appearance and Odor:RED, YELLOW, OR SILVER LUSTROUS METAL THAT BECOMES
DULL ON EXPOSURE TO AIR.

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

Stability Indicator/Materials to Avoid:YES

ACIDS, BASES AND OXIDIZERS. ACTYLENE, AMMOUNIUM NITRATE, BROMATES,
CHLORATES, IODATES, CHLORINE, CHLORINE TRIFLUORIDE.

Stability Condition to Avoid:DUSTS EXPOSED TO HEAT AND FLAMES.

Hazardous Decomposition Products:HIGH TEMPERATURES OF SMELTING, WELDING
OR FIRE MAY CAUSE PRODUCTION OF METAL FUMES.

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

Waste Disposal Methods:RECLAIM FOR REUSE IF POSSIBLE. FOLLOW FEDERAL,
STATE AND LOCAL REGULATIONS.

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