

**THERMACOTE-WELCO CO(SUB FOSTER WHEELER CORP) -- ALUMINUM WIRE 4043 --
6439-01-323-4369**

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

Product ID:ALUMINUM WIRE 4043
MSDS Date:07/01/1993
FSC:6439
NIIN:01-323-4369
MSDS Number: BTSKP
=== Responsible Party ===
Company Name:THERMACOTE-WELCO CO(SUB FOSTER WHEELER CORP)
Address:1051 YORK RD
Box:828
City:KINGS MOUNTAIN
State:NC
ZIP:28086
Country:US
Info Phone Num:FAX 704-739-3126
Emergency Phone Num:800-424-9300 (CHEMTREC)
CAGE:24559

=== Contractor Identification ===

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:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: 80-99.7%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9394

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: .05-.35%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9394
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: .2-4.7%
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:MANGANESE (SARA III)
 CAS:7439-96-5
 RTECS #:009275000
 Fraction by Wt: .01-5.9%
 Other REC Limits:NONE RECOMMENDED
 OSHA PEL:C 5 MG/M3
 ACGIH TLV:5 MG/M3, DUST; 9394

Ingred Name:SILICON
 CAS:7440-21-3
 RTECS #:VW0400000
 Fraction by Wt: .06-13%
 Other REC Limits:NONE RECOMMENDED
 OSHA PEL:10 MG/M3 TDUST
 ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:TITANIUM (OXIDE) (PER MSDS CAS # 7440-32-6).
 RTECS #:9999999ZZ
 Fraction by Wt: .01-.2%
 Other REC Limits:NONE RECOMMENDED

Ingred Name:ZINC (SARA III)
 CAS:7440-66-6
 RTECS #:ZG8600000
 Fraction by Wt: .05-.25%
 Other REC Limits:NONE RECOMMENDED
 EPA Rpt Qty:1000 LBS
 DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:NOT KNOWN.
 Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
 Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
 Health Hazards Acute and Chronic:INHAL NOT LIKELY UNLESS MATRL
 MACHINED,WELDED,OR REMELTED.EXPOUSRE TO ZINC OXIDE FUME CAN RESULT
 IN "ZINC CHILLS"(METAL FUME FEVER).RECOVERY USUALLY COMPLETE IN
 24-48 HOURS.OVEREXPOSURE TO COPPER FUME CAN CAUSE UPPER RESP TRACT
 IRRIT. EYESMAY IRRIT WHEN WELDING OR PLASMA CUTTING. (SEE
 SUPPLEMENTAL FOR ADDN INFO).
 Explanation of Carcinogenicity:CONTAINS CHROMIUM.
 Effects of Overexposure:EYE IRRITATION. ZINC CHILLS (METAL FUME FEVER).
 RESPIRATAORY TRACT IRRIT.
 Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:SKIN:REMOVE PARTICLES BY THOROUGHLY WASHING WITH SOAP AND
 WATER. EYE:FLUSH WITH WATER FOR AT LEAST 15MINS. GET MED ATTN IF
 IRRITATION PERSISTS. INHAL:REMOVE FROM EXPOUSRE. GET MED ATTN IF
 EXPERIENCING BREATHING DIFFICULTY.

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

Extinguishing Media:DRY POWDER OR SAND.
 Fire Fighting Procedures:DO NOT USE WATER OR HALOGEN ON DUST FUMES.
 Unusual Fire/Explosion Hazard:EXPLOSIVE MIXTURES W/DAMP AL DUST. ALSO
 HALOGEN ACID & NAOH W/AL IN PRESENSE OF BROMATES,IODATES,AMMONIUM

NITRITE IN AIR.

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

Spill Release Procedures:N/A.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:WHEN REMELTING AL SCRAP ENTRAPPED
MOISTURE OR PRESENCE OF STNG OXIDIZERS (AMMONIUM NITRATE) COULD CAUSE
EXPLOSION. THIS APPLIED TO COLLECTION OF (OTHEPRE)
Other Precautions:MOISTURE IN SAW CAVITIES; H₂O MUST BE DRIVEN OFF PRIOR
TO REMELTING. DON'T TOUCH CAST AL METAL OR HEATED AL MATL W/O
KNOWING METAL TEMP; NO COLOR CHANGE DURING HEATING. HARD ALLOY INGOTS
IN 2000&7000 SERI ES MUST BE STRESSRELIEVED PRIOR TO SAW.

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

Respiratory Protection:REQUIRED. DETERMINED BY THE NATURE OF THE
PROCESSING ACTIVITY.
Ventilation:TO BE DETERMINED BY THE NATURE OF THE PROCESSING ACTIVITY
BEING PERFORMED.
Protective Gloves:DETERMINED BY PROCESSING ACTIVITY
Eye Protection:DETERMINED BY PROCESSING ACTIVITY
Other Protective Equipment:APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT IS
REQUIRED WHEN MELTING, CASTING, MACHINING, FORGING, OR OTHERWISE
PROCESSING
Work Hygienic Practices:WASH HANDS AFTER HANDLING PRODUCT.
Supplemental Safety and Health
SOME AL SCRAP MAY BE CONTAMINATED W/OIL @ LEVELS >1%; MELTING IT MAY
GENERATE OIL VAPORS WHICH ARE IRRIT TO EYES & UPPER RESP
TRACT. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRIT. VAPOR
DEGREASER M UST BE PROPERLY MAINTAINED TO LIMIT ACCUMULATION OF
ALUMINUM FINES COULD RESULT IN FIRE OR EXPLOSION.

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

HCC:N1
Melt/Freeze Pt:M.P/F.P Text:950F, 510C
Spec Gravity:2.5-2.9
Solubility in Water:NEGLIGIBLE (NIL)
Appearance and Odor:METALLIC APPEARANCE, NO ODOR.

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

H₂O OR HALOGEN ON DUST FUMES; HALOGEN ACID & NAOH MIXTURES IN PRESENCE
OF BROMATES, IODATES, AMMONIUM NITRITE.
Stability Condition to Avoid:DAMP ALUMINUM DUST.
Hazardous Decomposition Products:WELDING OF AL ALLOYS MAY GENERATED CO,
CO₂, OZONE, NITROGEN OXIDES, INFRARED & ULTRAVIOLET RADIATION,
METAL FUMES.

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

Waste Disposal Methods:USED OR UNUSED PRODUCT SHOULD BE TESTED TO
DETERMINE HAZARD STATUS AND DISPOSAL REQUIREMENTS UNDER LOCAL,
STATE AND FEDERAL REGULATIONS. ALUMINUM POWDER MUST BE PACKAGED AND
SHIPPED AS FLAMMABLE SOILD UN1369.

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