

THERMACOTE WELCO -- E70S2 -- 3439-00N074982

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Product Identification
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Product ID:E70S2
MSDS Date:08/14/1990
FSC:3439
NIIN:00N074982
MSDS Number: CCTJM
=== Responsible Party ===
Company Name:THERMACOTE WELCO
Address:1051 YORK RD
City:KINGS MOUNTAIN
State:NC
ZIP:28086
Country:US
Info Phone Num:704-739-6424
Emergency Phone Num:800-424-9300 (CHEMTREC)
CAGE:OAES5

=== Contractor Identification ===

Company Name:THERMACOTE WELCO
Address:HWY 161 YORK RD
City:KINGS MTN
State:NC
ZIP:28086
Phone:(704) 739-6421
CAGE:OAES5
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

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Composition/Information on Ingredients
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Ingred Name:CARBON BLACK; (CARBON)
CAS:1333-86-4
RTECS #:FF5800000
Fraction by Wt: 0.50%
OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3; 9495

Ingred Name:MANGANESE (SARA 313)

CAS:7439-96-5

RTECS #:009275000

Fraction by Wt: 2.50%

OSHA PEL:C 5 MG/M3 DUST

ACGIH TLV:5 MG/M3 DUST 9495

Ingred Name:SILICON

CAS:7440-21-3

RTECS #:VW0400000

Fraction by Wt: 1.50%

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9495

Ingred Name:COPPER (SARA 313) (CERCLA)

CAS:7440-50-8

RTECS #:GL5325000

Fraction by Wt: 0.50%

OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2 MG/M3 FUME; 9495

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000

Fraction by Wt: 0.75%

OSHA PEL:10 PPM.

ACGIH TLV:10 PPM.

Ingred Name:ALUMINUM (SARA 313)

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt: 0.50%

OSHA PEL:15 MG/M3 DUST

ACGIH TLV:10 MG/M3 DUST; 9495

Ingred Name:TITANIUM

CAS:7440-32-6

RTECS #:XR1700000

Fraction by Wt: 0.50%

OSHA PEL:N/K
ACGIH TLV:10MG/M3 TOTAL (MFR)

Ingred Name:ZIRCONIUM
CAS:7440-67-7
RTECS #:ZH7070000
Fraction by Wt: 0.50%
OSHA PEL:5 MG ZR/M3
ACGIH TLV:5 MG ZR/M3

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: BAL
OSHA PEL:N/K
ACGIH TLV:5 MG/M3 FE203FE(MFR)

Ingred Name:SUPDAT:PERCENT & FORM FROM INGRED LISTED IN SECTION II.
FUME & GAS DECOMP PRODS, & NOT INGREDIENTS IN ELECTRODE, (ING 11)
RTECS #:9999999ZZ

Ingred Name:ING 10:ARE IMPORTANT. THE CONC OF GIVEN FUME/GAS COMPONENT
MAY DECR/INCR BY MANY TIMES ORIGINAL CONCENTRATION (ING 12)
RTECS #:9999999ZZ

Ingred Name:ING 11:IN ELECTRODE. NEW COMPOUNDS NOT IN ELECTRODE MAY FORM,
DECOMP PRODS OF NORM OPERATION INCL THOSE ORIGINATING (ING 13)
RTECS #:9999999ZZ

Ingred Name:ING 12:FROM VOLATILIZATION, RXN, OXIDATION OF MATL IN
SECTION II, PLUS THOSE FROM BASE METAL & COATING. (ING 14)
RTECS #:9999999ZZ

Ingred Name:ING 13:REASONABLY EXPECTED FUME CONSTITUENTS OF PROD COULD
INCL PRIMARILY OXIDES OF IRON: SECONDARILY COMPLEX (ING 15)
RTECS #:9999999ZZ

Ingred Name:ING 14:OXIDES OF MANGANESE & SILICON & ALUMINUM. GASEOUS
RXN PRODS: CARBON MONOXIDE, CARBON DIOXIDE. OZONE & (ING 16)
RTECS #:9999999ZZ

Ingred Name:ING 15:NITROGEN OXIDES MAY BE FORMED BY RADIATION FROM ARC, &
SHIELDING GASES WHEN EMPLOYED. ONE RECOMMENDED WAY TO DETERMINE (ING 17)

RTECS #:9999999ZZ

Ingred Name:ING 16:COMPOSITION & QTY OF FUMES & GASES TO WHICH WORKERS ARE EXPOSED IS TO TAKE AIR SAMPLE FROM INSIDE WELDERS(ING 18)

RTECS #:9999999ZZ

Ingred Name:ING 17:HELMET/IN WORKING ZONE. SEE AWS F1.1 & AWS F1.2-1985.(ING 19)

RTECS #:9999999ZZ

Ingred Name:ING 18:AVAILABLE FROM THE AM. WELDING SOCIETY. SEE AWS PUBLICATION: "FUMES AND GASES IN THE WELDING ENVIRONMENT".

RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:AM. STANDARD 249.1-1983. SAFETY IN WELDING

& CUTTING, WELDING HANDBOOK, VOL 1, SAFE (ING 21)

RTECS #:9999999ZZ

Ingred Name:ING 20:PRACTICES IN WELDING AND CUTTING.

RTECS #:9999999ZZ

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Hazards Identification
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ELECTRIC ARC WELDING MAY CREATE THE FOLLOWING: FUMES AND GASES CAN BE DANGEROUS TO YOUR HEALTH. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Explanation of Carcinogenicity:CARBON BLACK:IARC MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISK OF CHEMS TO MAN, VOL 65, PG 24-27, 1995:GROUP 2B.

Effects of Overexposure:SHORT TERM-DIZZINESS, NAUSEA, DRYNESS & IRRITATION OF NOSE, THROAT, EYES, CHEST TIGHTNESS, FEVER, ALLERGIC REACTION. OVEREXPOSURE TO FUMES-SIDEROSIS POSSIBLE. MAY AFFECT PLUMONARY FUNCTION.

Medical Cond Aggravated by Exposure:SEE SIGNS & SYMPTOMS OF EXPOSURE.

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First Aid Measures
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First Aid:INGEST: CALL MD IMMEDIATELY . EYES: IMMEDIATELY FLUSH WITH POTABLE WATER FOR A MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM MD

. SKIN: FLUSH WITH COPIOUS AMOUNTS OF WATER. CALL MD . I NHAL:
REMOVE TO FRESH AIR, OBTAIN MEDICAL ATTENTION. EMPLOY FIRST AID
TECHNIQUES RECOMMENDED BY AM. RED CROSS.

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Fire Fighting Measures
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Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE .
Fire Fighting Procedures: USE NIOSH APPRVD SCBA & FULL PROT EQUIP .
WELDING ARC & SPARKS CAN IGNITE COMBUSTS & FLAM. REFER TO AM.
NATIONAL STANDARD Z49.1 FOR FIRE PVNT (SUPDAT)
Unusual Fire/Explosion Hazard: NOT APPLICABLE.

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Accidental Release Measures
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Spill Release Procedures: NOT APPLICABLE.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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Handling and Storage Precautions: NOT APPLICABLE.
Other Precautions: NOT APPLICABLE.

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Exposure Controls/Personal Protection
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Respiratory Protection: MAKE SURE INHALED AIR DOES NOT CONTAIN FUME
CONSITUENTS ABOVE PERMISSIBLE EXPOSURE LEVELS. NIOSH APPROVED
RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN .
Ventilation: SEE RESPIRATORY PROTECTION.
Protective Gloves: IMPERVIOUS GLOVES .
Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS .
Other Protective Equipment: ANSI APPRVD EMER EYE WASH & DELUGE SHOWER .
OTHER PREC FOR ADDNL SAFETY INFO ON WELDING & CUTTING, SEE (ING
20)

Work Hygienic Practices: NOT APPLICABLE.

Supplemental Safety and Health

FIRE FIGHT PROC: DURING THE USE OF WELDING & ALLIED PROCS. HAZ DECOMP
PROD: BEING USED. OTHER FACTORS INCL COATINGS ON THE METAL BEING
WELDED (PAINT, PLATING/GALVANIZING). NUMBER OF WELDERS & VOL OF
WOR
K AREA AS PRESENCE OF CONTAMS IN ATM. WHEN ELECTRODE IS CONSUMED
FUME & GAS DECOMP PRODS GENERATED ARE DIFF IN (ING 10)

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Physical/Chemical Properties
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Appearance and Odor:SOLID WIRE OR ROD.

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

Stability Indicator/Materials to Avoid:YES
NONE.

Stability Condition to Avoid:NONE.

Hazardous Decomposition Products:THE COMPOSITION & QUALITY OF WELDING
FUMES & GASES ARE DEPENDENT UPON METAL BEING WELDED, PROCESS &
ELECTRODE (SUPDAT)

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING
ENVIRONMENT, DISCARD PRODUCT RESIDUE, DISPOSABLE CONTAINER OR
LINER

IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH
FEDERAL, STATE AND LOCAL REGULATIONS.

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