

THERMACOTE WELCO -- SUPER MISSILEWELD -- 3439-00F027316

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Product Identification  
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Product ID: SUPER MISSILEWELD  
MSDS Date: 11/21/1995  
FSC: 3439  
NIIN: 00F027316  
MSDS Number: BQZJH  
=== Responsible Party ===  
Company Name: THERMACOTE WELCO  
Address: HWY 161 S YORK RD  
Box: 69  
City: KINGS MOUNTAIN  
State: NC  
ZIP: 28086-5000  
Country: US  
Info Phone Num: 704-739-6421  
Emergency Phone Num: 704-739-6421  
CAGE: OAES5  
=== Contractor Identification ===  
Company Name: THERMACOTE WELCO CO  
Address: HWY 161 TORK RD  
Box: City: KINGS MOUNTAIN  
State: NC  
ZIP: 28086  
Country: US  
CAGE: OAES5

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Composition/Information on Ingredients  
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Ingred Name: NICKEL (SUSPECTED ANIMAL/HUMAN CARCINOGEN BY IARC GROUP 2B,  
SUSPECTED CARCINOGEN BY NTP) \*98-3\*  
CAS: 7440-02-0  
RTECS #: QR5950000  
Fraction by Wt: 1-10%  
Other REC Limits: 1 MG/CUM  
OSHA PEL: 1 MG/CUM  
ACGIH TLV: 0.05 MG/CUM IC

Ingred Name: CRYSTALLINE-FUSED SILICA, SILICON DIOXIDE, AMORPHOUS QUARTZ  
(ANIMAL CARCINOGEN BY IARC GROUP 2A) \*98-3\*  
CAS: 60676-86-0  
RTECS #: VV7328000  
Fraction by Wt: 1-10%  
OSHA PEL: 10 MG/CUM RESP SIO2  
ACGIH TLV: 0.1 MG/CUM RESP DUST

Ingred Name: CRYOLITE, SODIUM ALUMINUM FLUORIDE, SODIUM FLUOALUMINATE  
CAS: 15096-52-3  
RTECS #: WA9625000  
Fraction by Wt: 1-10%

Ingred Name: TITANIUM DIOXIDE, TITANIUM OXIDE (SUSPECTED ANIMAL  
CARCINOGEN, IARC GROUP 3) \*98-3\*  
CAS: 13463-67-7  
RTECS #: XR2275000  
Fraction by Wt: 1-10%  
OSHA PEL: 15 MG/CUM  
ACGIH TLV: 10 MG/CUM (DUST)

Ingred Name: BARIUM CARBONATE  
CAS: 513-77-9  
RTECS #: CQ8600000  
Fraction by Wt: 0.1%  
OSHA PEL: 0.5 MG/CUM (BA)  
ACGIH TLV: 0.5 MG/CUM (BA)

Ingred Name: CALCIUM CARBONATE, DOMOLITE, LIMESTONE, WHITING \*98-3\*  
CAS: 1317-65-3  
RTECS #: EV9580000  
Fraction by Wt: 1-10%  
Other REC Limits: 5 MG/M3 RESP DUST  
OSHA PEL: 15 MG/M3  
ACGIH TLV: 10 MG/CUM TOTAL DUST

Ingred Name: CALCIUM FLUORIDE, FLUORSPAR, CALCIUM DIFLUORIDE, IRTRAN 3,  
LIPARITE  
CAS: 7789-75-5

RTECS #:EW1760000  
Fraction by Wt: 0.1%  
Other REC Limits:2.5 MG/CUM (AS F)  
OSHA PEL:2.5 MG/CUM (AS F)  
ACGIH TLV:2.5 MG/CUM (AS F)

Ingred Name:CHROMIUM, CHROMIUM METAL, CHROME (CARCINOGEN BY NTP; IARC  
GROUP 3) \*98-3\*  
CAS:7440-47-3  
RTECS #:GB4200000  
Fraction by Wt: 11-30%  
ACGIH TLV:0.5 MG/CUM  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:COBALT (ANIMAL CARCINOGEN BY IARC - GROUP 2B) \*98-3\*  
CAS:7440-48-4  
RTECS #:GF8750000  
Fraction by Wt: 0.1%  
Other REC Limits:0.05 PPM  
OSHA PEL:0.1 MG/CUM  
ACGIH TLV:0.05 MG/CUM

Ingred Name:COPPER (DUST & MIST), BRONZE POWDER \*98-3\*  
CAS:7440-50-8  
RTECS #:GL5325000  
Fraction by Wt: 0.1%  
Other REC Limits:1 MG(CU)/M3 (DUST)  
OSHA PEL:0.1 MG(CU)/M3 (FUME)  
ACGIH TLV:0.2 MG/M3 (FUME)  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:IRON \*98-3\*  
CAS:7439-89-6  
RTECS #:NO4565500  
Fraction by Wt: 31-65%

Ingred Name:MANGANESE \*98-3\*  
CAS:7439-96-5  
RTECS #:OO9275000  
Fraction by Wt: 1-10%  
OSHA PEL:5 MG/CUM  
ACGIH TLV:5 MG/CUM (DUST)

Ingred Name:MOLYBDENUM (SOLUBLE COMPOUND)  
CAS:7439-98-7  
RTECS #:QA4680000  
Fraction by Wt: 0.1%  
OSHA PEL:5 MG/CUM  
ACGIH TLV:5 MG/CUM

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Hazards Identification  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:SHORT TERM EXPOSURE: METALLIC TASTE,  
NAUSEA, TIGHTNESS OF CHEST, FEVER, IRRITATION OF EYES, NOSE, THROAT  
& SKIN, LOSS OF CONSCIOUSNESS/DEATH DUE TO WELDING GASES/LACK OF  
OXYGEN. LONG TERM EXPOSURE TO FUMES/GASES/DUSTS: SKIN  
SENSITIZATION, NEUROLOGICAL DAMAGE, RESPIRATORY DISEASE.  
Explanation of Carcinogenicity:SEE INGREDIENTS.  
Effects of Overexposure:SHORT TERM EXPOSURE: METALLIC TASTE, NAUSEA,  
TIGHTNESS OF CHEST, FEVER, IRRITATION OF EYES, NOSE, THROAT & SKIN,  
LOSS OF CONSCIOUSNESS/DEATH DUE TO WELDING GASES/LACK OF OXYGEN.  
LONG TERM EXPOSURE TO FUMES/GASES/DUSTS: SKIN SENSITIZATION,  
NEUROLOGICAL DAMAGE, RESPIRATORY DISEASE.  
Medical Cond Aggravated by Exposure:SKIN/RESPIRATORY CONDITIONS.

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First Aid Measures  
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First Aid:INHALATION: REMOVE TO FRESH AIR. IF UNCONSCIOUS, ADMINISTER  
OXYGEN/RESUSITATE IMMEDIATELY. OBTAIN MEDICAL ATTENTION IN ALL  
CASES.

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Fire Fighting Measures  
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Unusual Fire/Explosion Hazard:WELDING ARCS & SPARKS CAN IGNITE  
FLAMMABLE LIQUIDS & VAPORS & COMBUSTIBLE SOLIDS.

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Accidental Release Measures  
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Spill Release Procedures:VACUUM RESIDUE FROM CUTTING, GRINDING/WELDING OPERATIONS INTO SUITABLE CONTAINER.

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

Respiratory Protection:USE AIR-SUPPLIED RESPIRATOR NIOSH APPROVED IN ACCORDANCE W/EPA OR LOCAL REGULATIONS

Ventilation:LOCAL EXHAUST WHEN CUTTING, GRINDING/WELDING. MAINTAIN EXPOSURE BELOW LIMITS. PROVIDE ADEQUATE VENTILATION.

Protective Gloves:AS REQUIRED

Eye Protection:WELDING LENSE SHADE FROM AWS F2.2

Other Protective Equipment:FACE PROTECTION, FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING/WELDING

Supplemental Safety and Health

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

Appearance and Odor:SOLID ALLOY WIRE WHICH IS FLUX COATED. NO ODOR

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

Stability Indicator/Materials to Avoid:YES

OXIDES OF METALS, CHROMATES, FLUORIDES, COMPLEX METALLICS, CO, OZONE & OXIDES OF NITROGEN

Stability Condition to Avoid:WELDING ARCS, SPARKS, HIGH TEMPERATURES

Hazardous Decomposition Products:PHOSGENE/FUMES OF ALUMINUM/CO/CHROMIUM/COBALT/COPPER/FLUORIDES/IRON OXIDE/MANGANESE/MOLYBDENUM/NICKEL/NITROGEN DIOXIDES

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.

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