

WOLVERINE JOINING TECHNOLOGIES, INC -- SILVALOY A-56T -- 3439-01-047-4141

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Product Identification
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Product ID:SILVALOY A-56T
MSDS Date:09/27/2000
FSC:3439
NIIN:01-047-4141
Status Code:A
MSDS Number: CLHVN
=== Responsible Party ===
Company Name:WOLVERINE JOINING TECHNOLOGIES, INC
Address:235 KILVERT STREET
City:WARWICK
State:RI
ZIP:02886
Country:US
Info Phone Num:401-739-9550
Emergency
Phone Num:1-401-739-9550
CAGE:UO454
=== Contractor Identification ===
Company Name:L AND M WELDING SUPPLY INC
Address:568 WESTERN DR
Box:City:MOBILE
State:AL
ZIP:36607-1420
Country:US
Phone:334-470-9997
Contract Num:SP0490-01-M-XH99
CAGE:1HJ95
Company Name:WOLVERINE JOINING TECHNOLOGIES, INC
Address:235 KILVERT STREET
Box:City:WARWICK
State:RI
ZIP:02886
Country:US
Phone:401-739-9550
CAGE:UO454

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Composition/Information on Ingredients
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Ingred Name:COPPER
CAS:7440-50-

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RTECS #:GL5325000

Minumum % Wt:3.

Maxumum % Wt:45.

Other REC Limits:0.1 MG/M3 FUME

OSHA PEL:1 MG/M3 DUST

ACGIH TLV:1 MG/M3 DUST

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:SILVER

CAS:7440-22-4

RTECS #:VW3500000

Minumum % Wt:20.

Maxumum % Wt:70.

OSHA PEL:0.01 MG/M3

ACGIH TLV:0.1 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:ZINC (AS ZINC OXIDE)

CAS:7440-66-6

RTECS #:ZG8600000

Minumum % Wt:1.

Maxumum % Wt:35.

Other REC Limits:5 MG/M3 FUME

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG

/M3 TDUST

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Minumum % Wt:.5

Maxumum % Wt:30.

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:ACUTE: MAY CAUSE EYES, SKIN,

RESPIRATORY TRACT IRRITATION & METAL FUME FEVER. CHRONIC:

INGESTION: COPPER POIS

ONING. INHALATION MAY CAUSE A BENIGN PNEUMOCONIOSIS. PROLONGED OR EXCESSIVE EXPOSURE MAY RESULT IN ARGYRIA, A PERMANENT LOCALIZED BLUE-GRAY DISCOLORATION OF THE EYES, SKIN OR MUCOUS MEMBRANES. PROLONGED EXPOSURE TO SILVER CAN CAUSE DAMAGE TO THE NASAL SEPTUM. EXCESSIVE ZINC INTAKE HAS BEEN ASSOCIATED WITH COPPER DEFICIENCY ANEMIA. THE POTENTIAL HEALTH EFFECTS DESCRIBED HERE APPLY ONLY IF DUST OR FUME IS FORMED.

Effects of Overexposure:OVEREXPOSURE MAY LEAD TO COPPER POISONING,

RESULTING IN HEMOLYTIC ANEMIA AND LIVER, KIDNEY AND SPLEEN DAMAGE. PROLONGED OR REPEATED INHALATION MAY CAUSE A BENIGN PNEUMOCONIOSIS. PROLONGED OR EXCESSIVE EXPOSURE MAY RESULT IN ARGYRIA, A PERMANENT LOCALIZED BLUE-GRAY DISCOLORATION OF THE EYES, SKIN OR MUCOUS MEMBRANES. PROLONGED EXPOSURE TO SILVER CAN CAUSE DAMAGE TO THE NASAL SEPTUM. EXCESSIVE ZINC INTAKE HAS BEEN ASSOCIATED WITH COPPER DEFICIENCY ANEMIA. REFER TO POTENTIAL HEALTH EFFECTS.

Medical Cond

Aggravated by Exposure:MAY ADVERSELY AFFECT EXISTING MEDICAL CONDITIONS, SUCH AS EYE, SKIN, RESPIRATORY, BLOOD, LIVER AND/OR KIDNEY AILMENTS. INDIVIDUALS WITH WILSON'S DISEASE ARE AT INCREASED RISK OF COPPER POSIONING.

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

First Aid:EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER. IF IRRITATION DEVELOPS, CALL A PHYSICIAN. SKIN CONTACT: IMMEDIATELY WASH SKIN WITH SOAP AND PLENTY OF WATER. IF IRRITATION PERSISTS, CALL A PHYSICIAN. IN HALATION: IF EXPOSED TO EXCESSIVE LEVELS OF METAL FUMES, REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION. INGESTION: IF PERSON IS CONSCIOUS AND ABLE TO SWALLOW, GIVE LARGE AMOUNTS OF WATER TO DILUTE. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO HELP PREVENT ASPIRATION. GET MEDICAL ATTENTION IMMEDIATELY.

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

Extinguishing Media:USE CARBON DIOXIDE, CHEMICAL FOAM OR DRY CHEMICAL. USE ANY ME

ANS FOR EXTINGUISHING SURROUNDING FIRE.

Fire Fighting Procedures:WEAR NIOSH/ MSHA APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING AS SPECIFIED IN 29 CFR 1910.156.

Unusual Fire/Explosion Hazard:NOT A FIRE OR EXPLOSION HAZARD IN SOLID FORM. FINELY DIVIDED DUST MAY IGNITE AND BURN RAPIDLY WHEN MIXED WITH AIR IN THE PROPER PROPORTIONS. TOXIC METAL FUMES MAY BE RELEASED IN A FIRE SITUATION.

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

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Spill Release Procedures:CONTAIN SPILLIAGE AND SCOOP UP OR VACUM.NOTIFICATION OF THE NATIONAL RESPONSE CENTER (800/424-8802) MAY BE REQUIRED. REFER TO EPA DOT AND APPLICABLE STATE AND LOCAL REGULATIONS FOR CURRENT RESPONSE INFORMATION. IT IS RECOMMENDED THAT EACH USER ESTABLISH A SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC). SUCH PLAN SHOULD INCLUDE PROCEDURES REUSE OR DISPOSAL AS APPROPRIATE SEE SECTION 13: DI

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

Handling and Storage Precautions:WASH THOROUGHLY AFTER HANDLING. STORE IN A COOL, DRY LOCATION AWAY FROM INCOMPATIBLE MATERIALS. AVOID BREATHING ANY DUST, MIST OR FUMES RESULTING FROM THE USE OF THIS PRODUCT. AVOID CONTACT WITH ANY DUSTS, MISTS OR FUMES RESULTING FROM THE USE OF THIS PRODUCT. USE ONLY WITH ADEQUATE VENTILATION.

Other Precautions:DO NOT EAT, DRINK, OR SMOKE IN WORK AREA.

===== Exposure Controls/Personal Protection ==
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Respiratory Protection:IF DUST OR FUME IS GENERATED, NIOSH/MSHA APPROVED RESPIRATOR MAY BE NECESSARY. FOLLOW ALL REQUIREMENTS FOR RESPIRATORY PROGRAMS AND SELECTION SET FORTH IN THE OSHA REGULATIONS (29 CFR 1910.139).

Ventilation:GENERAL; LOCAL EXHAUST VENTILATION AS NECESSARY TO CONTROL ANY AIR CONTAMINANTS TO WITHIN THEIR PELS OR TLVS DURING THE USE OF THIS PRODUCT.

Supplemental Safety and Health
CODE FOR MSDS: AG-CU-ZN-SN.

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

HCC:N1

Boiling Pt:B.P. Text:NOT DETERMINED

Melt/Freeze Pt:=646.1C, #####F

Spec Gravity:8.70 TO 8.50

Solubility in Water:INSOLUBLE

Appearance and Odor:METALLIC WIRE, ROD OR STRIP, ODORLESS

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS AND BASES, STRONG OXIDIZERS, ACETYLENE, AMMONIA, HYDROGEN PEROXIDE, CHLORINE, BROMINE, IODINE, TURPENTINE, MAGNESIUM METAL, AMMONIUM NITRATE, HY

DROGEN SULFIDE.

Stability Condition to Avoid:NONE EXPECTED.

Hazardous Decomposition Products:TOXIC METAL OXIDES ARE EMITTED WHEN HEATED ABOVE THE MELTING POINT. THE AMOUNT OF FUME EVOLVED INCREASES AS THE TEMPERATURE RISES.

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Ecological Information
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Ecological:NO DATA AVAILABLE.

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Disposal Considerations
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Waste Disposal Methods:THIS PRODUCT CONTIANS SILVER COMPOUNDS AND DISPOSAL MAY BE REGULATED UNDER EPA HAZARDOUS WASTE REGULATIONS, WASTE NUMBER D011. BEFORE DISPOSAL, THIS PRODUCT OR MIXTURES CONTAINING THIS PRODUCT SHOULD BE TESTED FOR TOXICITY CHARACTERISTICS (TC) UNDER THE CURRENT EPA HAZARDFOUS WASTE REGULATIONS TCLP TESTING PROCEDURES, 40 CFR PART 261.

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MSDS Transport Information
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Transport Information:NOT REGULATED FOR TRANSPORTATION.

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Regulatory Information
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SARA Title III I

Information:SARA SEC 313 & 312 HAZARD CATEGORIES:

IMMEDIATE:YES; DELAYED: YES. FIRE HAZARD: NO; REACIVITY HAZARD: NO; SUDDEN RELEASE OF PRESSURE: NO. SARA 313 NOTIFICATION: THIS PRODUCT CONTAINS A TOXIC CHEMICAL/ S SUBJECT TO THE REPORTING REQUIREMENTS OF SEC 313 OF TITLE III OF 40 CFR 372.

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