

AUFHAUSER CORP -- SILVER ALLOY 25, 25L, 30, 35, 45, 50, 50N -- 3439-00-528-3882

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Product Identification  
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Product ID:SILVER ALLOY 25, 25L, 30, 35, 45, 50, 50N

MSDS Date:04/19/1999

FSC:3439

NIIN:00-528-3882

Status Code:A

MSDS Number: CLPVZ

=== Responsible Party ===

Company Name:AUFHAUSER CORP

Address:39 WEST MALL

City:PLAINVIEW

State:NY

ZIP:11803-4209

Country:US

Info Phone Num:212-757-682

4/FAX: 516-694-8690

Emergency Phone Num:516-694-8696 (9-5)

CAGE:59401

=== Contractor Identification ===

Company Name:AUFHAUSER CORP

Address:39 WEST MALL

Box:City:PLAINVIEW

State:NY

ZIP:11803-4209

Country:US

Phone:212-757-6824/FAX: 516-694-8690

Contract Num:SP0490-02-M-Y183

CAGE:59401

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Composition/Information on Ingredients  
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Ingred Name:SILVER

CAS:7440-22-4

RTECS #:VW3500000

Minumum % Wt:20.

Maxumum % Wt:50.

OSHA PEL:0.01 MG/M3

ACGIH TLV:0.1 MG/M3

EPA Rpt Qty:1 LB

DO

T Rpt Qty:1 LB

Ingred Name:ZINC (AS OXIDE) MF CAS# 7723-66-6

Minumum % Wt:16.

Maxumum % Wt:30.

Ingred Name:CADMIUM

CAS:7440-43-9

RTECS #:EU9800000

Minumum % Wt:5.

Maxumum % Wt:24.

OSHA PEL:SEE 1910.1027

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:COPPER

CAS:7440-50-8

RTECS #:GL5325000

Minumum % Wt:15.

Maxumum % Wt:45.

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:NICKEL (IN 50N ONLY) MF CAS# 7440-02-0

Minumum % Wt:0.

Maxumum % Wt:3.

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

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:EYE-MAY CAUSE IRRITATION. SKIN-MAY

CAUSE IRRITATION.INHALATION-MAY CAUSE EXCESSIVE CADMIUM ABSORPTION  
RESULTING IN PULMONARY EMPHYSEMA &/OR KIDNEY DYSFUNCTION. INGESTION  
IS HARMFUL. COPPER POISONING C AN RESULT IN HEMOLYTIC ANEMIA &  
KIDNEY, LIVER & SPLEEN DAMAGE. NOTE: INHAL

TION OF FUMES MAY CAUSE A

FLU-LIKE ILLNESS CALLED METAL FUME FEVER. TYPICALLY METAL FUME  
FEVER BEGINS 4-12 HRS AFTER SUFFICIEN T EXPOSURE TO FRESHLY FORMED  
FUMES. CHRONIC: PROLONGED OR EXCESSIVE EXPOSURE MAY RESULT IN  
ARGNA. REPEATED EXPOSURE TO CADMIUM OR NICKEL, MAY RESULT IN KIDNEY  
DAMAGE & AN INCREASED RISK OF LUNG CANCER .

Explanation of Carcinogenicity:CADMIUM & CADMIUM COMPOUNDS, IARC HAS  
DETERMINED THAT THERE IS SUFFICIENT EVIDENCE OF CARCINOGENICITY TO  
HUMANS

(GROUP I). SIMILAR CARCINOGENICITY RESULTS FOR NICKEL. OSHA & ACGIH CONSIDER CADMIUM & CADMIUM COMPOUNDS TO BE SUSPECT HUMAN CANCER HAZARD (A2). NTP LISTS CADMIUM & CERTAIN CADMIUM COMPOUNDS AS REASONABLY ANTICIPATED TO BE CARCINOGENIC.

Effects of Overexposure:INGESTION: MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. COPPER POISONING CAN RESULT IN HEMOLYTIC ANEMIA AND KIDNEY, LIVER AND SPLEEN DAMAGE. NOTE: INHALATION OF FUMES MAY CAUSE A FLU-LIKE ILLNESS CALLED

D METAL FUME FEVER. THE

FIRST SYMPTOMS ARE A METALLIC TASTE, DRYNESS AND IRRITATION OF THE THROAT. COUGH AND SHORTNESS OF BREATH MAY OCCUR ALONG WITH HEADACHE, FATIGUE, NAUSEA, VOMITING, MUSCLE & JOINT PAIN, FEVER & CHILLS. THE POTENTIAL HEALTH EFFECTS DESCRIBED ONLY APPLY IF DUST OR FUME IS FORMED.

Medical Cond Aggravated by Exposure:MAY AGGRAVATE EXISTING MEDICAL CONDITIONS SUCH AS RESPIRATORY AND/OR KIDNEY AILMENTS. INDIVIDUALS WITH WILSON'S DISEASE ARE AT INCREASED RISK OF COPPER POISONING.

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

First Aid:EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER. IF IRRITATION DEVELOPS, CALL PHYSICIAN. SKIN CONTACT: IMMEDIATELY WASH SKIN WITH SOAP AND PLENTY OF WATER. IF IRRITATION PERSISTS, CALL PHYSICIAN. INHALATION: IF EXPOSED TO EXCESSIVE LEVELS OF METAL FUMES, REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION. INGESTION: PROCEDURES NOT NORMALLY NEEDED. IF LARGE QUANTITIES ARE INGESTED, SEEK MEDICAL ADVICE.

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

Extinguishing Media:USE CARBON DIOXIDE, CHEMICAL FOAM OR DRY CHEMICAL. USE ANY MEANS FOR EXTINGUISHING SURROUNDING FIRE.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

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 PRO

PER PROPORTIONS. TOXIC METAL FUMES MAY BE RELEASED IN A FIRE SITUATION.

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

Spill Release Procedures:CONTAIN SPILL & SCOOP UP OR VACUUM. NOTIFICATION OF THE NRC (800-424-8802) MAY BE REQUIRED. REFER TO EPA, DOT & APPLICABLE STATE & LOCAL REGULATIONS FOR CURRENT RESPONSE INFORMATION. IT IS RECOMMENDED THAT EACH USER ESTABLISH A SPILL PREVENTION, CONTROL & COUNTERMEASURE PLAN(SPCC). SUCH PLAN SHOULD INCLUDE

PROCEDURES APPLICABLE TO PROPER STORAGE, CONTROL &  
CLEANUP OF SPILLS, REUSE OR DISPOSAL.

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

Other Precautions:DO NOT EAT, DRINK, OR SMOKE IN WORK AREA. USE ONLY WITH ADEQUATE VENTILATION. NOTE: CONS

ULT THE MOST RECENT OSHA

CADMIUM STANDARD (1910 1027) AND ITS ATTACHMENTS, APPENDAGES, ETC FOR FULL REQUIREMENTS , SOME OF WHICH ARE NOT COVERED IN THIS MATERIAL SAFETY DATA SHEET.

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Exposure Controls/Personal Protection  
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Respiratory Protection:A NIOSH/MSHA APPROVED RESPIRATOR IS RECOMMENDED IF DUST IS GENERATED.

Ventilation:GENERAL, LOCAL EXHAUST VENTILATION AS NECESSARY TO CONTROL ANY AIR CONTAMINANTS TO WITHIN THEIR PEL OR TLV DURING USE OF THI

S

PRODUCT.

Protective Gloves:REFER TO ANSI/ASC Z49.1-88(SAFETY IN WELDING, CUTTING AND ALIED PROCESSES)

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS.

Other Protective Equipment:BODY PROTECTION AS NECESSARY TO PREVENT SKIN CONTACT.

Supplemental Safety and Health

REFER TO ANSI/ASC Z49, I-88 (SAFETY IN WELDING, CUTTING & ALLIED PROCESSES), PUBLISHED BY THE AMERICAN WLEDING SOCIETY FOR FUTHER INFORMATION ON THE SELECTION OF PERSONAL PROTECTIVE EQUIPMENT.

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Physical/Chemical Properties  
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HCC:N1

Boiling Pt:B.P. Text:N/D

Melt/Freeze Pt:M.P/F.P Text:607-632C

Spec Gravity:8.0-10.0

Evaporation Rate & Reference:N/A (BUAC=1)

Solubility in Water:INSOLUBLE

Appearance and Odor:METALLIC WIRE ROD OR STRIP; ODORLESS

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES

STRONG ACIDS AND BASES, STRONG OXIDIZERS, ACETYLENE, AMMONIA, HYDROGEN PEROXIDE, MAGNESIUM METAL, AMMONIUM NIT

RATE, HYDROGEN SULFIDE,  
ELEMENTAL SULFUR, SELENIUM, TELLURIUM, CHLORINATED RUBBER.

Stability Condition to Avoid:NONE EXPECTED.

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

===== Toxicological Information =====

Toxicological Information:CADMIUM CAS NO.: 7440-43-9, 18%, LD50=225  
MG/KG RAT ORAL, LC50=NOT AVAILABLE. COPPER CAS N

O.: 7440-50-8, 26%,

LD50=3.5 MG/KG MOUSE, INTRAPERITONCAL, LC50=NOT AVAILABLE. NICKEL  
(IN 50N) CAS NO.: 7440-02-0, 1%, LD50=NONE. LC50=NONE. SILVER  
CAS.: 7440-22-4, 35%, LD50=NOT AVAILABLE. LC50=NOT AVAILABLE. ZINC  
(AS OXIDE) CAS NO.: 7440-66-6, 21%, LD50=7.950 MG/KG MOUSE, ORAL.  
LC50=2.500 MG/KG, MOUSE.

===== Ecological Information =====

Ecological:ECOTOXICITY: NO DATA AVAILABLE. ENVIRONMENTAL FATE: NO DATA  
AVAILABLE.

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

Waste Disposal Methods:EPA WASTE NUMBER: D006/D011. BEFORE DISPOSAL  
THIS PRODUCT OR MIXT CONTAINING THIS PRODUCT SHOULD BE TESTED FOR  
TOXICITY CHARACTERISTICS UNDER THE CURRENT EPA HAZARDOUS WASTE  
REGULATIONS TCLP TESTING PROCEDURES 40CFR PART 261 ET SEQ.  
DISPOSAL/RECYCLING/RECLAMATION REQUIREMENTS WILL VARY BY LOCAL &  
DISPOSAL METHOD. CONSULT STATE/LOCAL AUTHORITIES.

===== MSDS Transport Information =====

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Transport Information:INTERNATIONAL: UN NUMBER: NOT REGULATED. UNITED  
STATES: EPA WASTE NUMBER: D006/D011. DOT CLASSIFICATION: NOT  
REGULATED. CANADA: PIN NUMBER: NOT REGULATED. TDG CLASS: NOT  
REGULATED. EC: DGI: NOT DETERMINED.

===== Regulatory Information =====

SARA Title III Information:SARA 311 AND 312 HAZARD CATEGORIES:  
IMMEDIATE (ACUTE) HEALTH HAZARD: YES. DELAYED (CHRONIC) HEALTH  
HAZARD: YES. FIRE HAZARD: NO. REACTI

VITY HAZARD: NO. REACTIVITY

HAZARD: NO. SUDDEN RELEASE OF PRESSUR E: NO. SARA SECTION 313

NOTIFICATION: THIS PRODUCT CONTAINS A TOXIC CHEMICAL (OR CHEMICALS) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS & REAUTHORIZAT ION ACT OF 1986 & 40 CFR PART 372. CADMIUM, 7440-43-9, 16-24%; COPPER, 7440-50-8, 15-45%; NICKEL, 7440-02-0, 0-1%; SILVER, 7440-22-4, 20-50%; ZINC (AS OXIDE), 7440-66-6, 16-30%.

Federal Regulatory Informat

ion:TSCA: IN TSCA. OZONE DEPLETING

SUBSTANCES (ODS): THIS PRODUCT NEITHER CONTAINS NOR IS MANUFACTURER WITH AN OZONE DEPLETING SUBSTANCE SUBJECT TO THE LABELING REQUIREMENTS OF THE CLEAN AIR ACT AMENDMENT S 1990 AND 40 CFR PART 82. VOLATILE ORGANIC COMPOUNDS (VOC): NONE.

State Regulatory Information:CALIFORNIA: WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. VOLATILE ORGANIC COMPOUND (CARB): NOT DETERMINED.

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== Other Information =====

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