

AUFHAUSER CORP -- SILVALOY 15 -- 3439-00-262-4202

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

Product ID:SILVALOY 15  
MSDS Date:03/11/1999  
FSC:3439  
NIIN:00-262-4202  
Status Code:A  
MSDS Number: CKFHD  
=== Responsible Party ===  
Company Name:AUFHAUSER CORP  
Address:39 WEST MALL  
City:PLAINVIEW  
State:NY  
ZIP:11803-4209  
Country:US  
Info Phone Num:516-694-8696  
Emergency Phone Num:516-694-8696  
Resp. Party Other MSDS Nu  
m.:CODE: F1-7153  
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:SPO490-99-M-RD35  
CAGE:59401

=====  
Composition/Information on Ingredients  
=====

Ingred Name:COPPER (SARA III)  
CAS:7440-50-8  
RTECS #:GL5325000  
Fraction by Wt: 80%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.1MG/M3 FUME/1 DUST  
ACGIH TLV:0.2MG/M3 FUME; 9293  
EPA Rpt Qty

:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:SILVER (SARA III)  
CAS:7440-22-4  
RTECS #:VW3500000  
Fraction by Wt: 15%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.01 MG/M3  
ACGIH TLV:0.1 MG/M3; 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:PHOSPHOROUS (YELLOW) (SARA III)  
CAS:7723-14-0  
RTECS #:TH3500000  
Fraction by Wt: 5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.1 MG/M3; 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:NONE PROVIDED BY MFR.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:MAY CAUSE EYES, SKIN AND RESPIRATORY  
TRACT IRRITATION. INGESTION: MAY CAUSE COPPER POISONING. INHALATION  
MAY CAUSE SYSTEMIC TOXICITY. CHRONIC: PROLONGED OVEREXPOSURE TO  
PHOSPHORUS CAN CAUSE GASTROINTESTINAL DISTRESS, GARLIC BREATH,  
NECROSIS & DEFORMITY OF THE JAW. SYSTEMIC EFFECTS SUCH AS CARD  
IAC,  
LIVER & KIDNEY DYSFUNCTION MAY RESULT DUE TO PROLONGED INHALATION  
OF FUMES. PROLONGED OR EXCESSIVE EXPOSURE MAY RESULT IN ARGYRIA, A  
PERMANENT LOCALIZED BLUE-GREY DISCOLORATION OF THE EYES, SKIN, OR  
MUCOUS MEMBRANES.  
Explanation of Carcinogenicity:NONE PROVIDED BY MFR.  
Effects of Overexposure:NONE PROVIDED BY MFR.  
Medical Cond Aggravated by Exposure:MAY AGGRAVATE EXISTING RESPIRATORY  
AND/OR SKIN AILMENTS. INDIVIDUALS WITH WILSON'S DISEASE ARE AT  
INCREASED RISK OF COP

PER POISONING.

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

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

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

Autoignition Temp:Autoignition Temp Text:NOT AP  
Lower Limits:NOT APPLICAB  
Upper Limits:NOT APPLICAB  
Extinguishing Media:USE CARBON DIOXIDE, CHEMICAL FOAM OR DRY CHEMICAL. USE ANY MEANS FOR EXTINGUISHING SURROUNDING FIRE.  
Fire Fighting Procedures:WEAR PROTECTIVE-PRESSURE SELF CONTAINED BREATHING APPARATUS  
Unusual Fire/Explosion Hazard:NOT A FIRE OR EXPLOSION HAZARD IN SOLID FORM. FINELY DIVIDED DUST MAY IGNITE & BURN RAPIDLY WHEN MIXED WITH AIR IN THE PROPER PROPORTIONS. TOXIC METAL FUMES MAY BE RELEASED IN A FIRE SITUATION.

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

Spill Release Procedures:CONTAIN SPILLAGE & SCOOP UP OR VACUUM. AVOID DUSTING. NOTIFICATION OF THE NATIONAL RESPONSE CENTER (800-424-8802) MAY BE REQUIRED. IT IS RECOMMENDED THAT EACH USER ESTABLISH A SPILL PREVENTION, CONTROL & COUNTERMEASURE PLAN (SPCC). WHICH INCLUDES PROCEDURES APPLICABLE TO PROPER STORAGEE  
CONTROL & CLEAN UP OF SPILLS.  
Neutralizing Agent:NONE PROVIDED BY MFR.

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

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. USE ONLY WITH ADEQUATE VENTILATION. DO NOT EAT DRINK, OR SMOKE IN THE WORK AREA.  
Other Precautions:AVOID INHALING FUMES OR DUST.

DO NOT EAT, DRINK, OR  
SMOKE IN WORK AREA. AVOID CONTACT WITH ANY DUSTS, MISTS, OR FUMES  
RESULTING FROM THE USE OF THIS PRODUCT.

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

Respiratory Protection:A NIOSH/MSHA APPROVED DUST RESPIRATOR IS  
RECOMMENDED IF DUST IS GENERATED  
Ventilation:GENERAL; LOCAL EXHAUST VENTILATION AS NECESSARY TO CONTROL  
ANY AIR CONTAMINANTS TO WITHIN THEIR PEL'S OR TLV'S DURING THE USE  
OF THIS PRODUCT.  
Protective Gloves:WELDING GLO  
VES  
Eye Protection:SAFETY GLASSES (WITH SIDE SHIELDS)  
Other Protective Equipment:BODY PROTECTION AS NECESSARY TO PREVENT SKIN  
CONTACT.  
Work Hygienic Practices:MUST FOLLOW ANSI/ASC Z49.1.88 WELDING SAFETY  
RULES AS APPROPRIATE.  
Supplemental Safety and Health  
NONE PROVIDED BY MFR.

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

HCC:N1  
Boiling Pt:B.P. Text:NOT DETERMINED  
Melt/Freeze Pt:=636.9C, #####F  
Decomp Temp:Decomp Text:NONE PROVIDED BY MFR.  
Vapor Density:NOT APP  
LIC  
Spec Gravity:7.75 (H2O=1)  
Viscosity:NONE PROVIDED BY MFR.  
Solubility in Water:INSOLUBLE  
Appearance and Odor:METALLIC WIRE, ROD OR STRIP, ODORLESS  
Corrosion Rate:NONE PROVIDED BY MFR

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

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS AND BASES, STRONG OXIDIZING AGENTS, ACETYLENE, AMMONIA,  
HYDROGEN PEROXIDE, MAGNESIUM METAL, AMMONIUM NITRATE, HYDROGEN  
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.

Conditions to Avoid Polymerization:WILL NOT OCCUR

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

Toxicological Information:LD50 (MOUSE) FOR COPPER = 3.5 MG/KG

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

Ecological:NO DATA AVAILABLE.

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

=====

Waste Disposal Methods:SCRAP OR WASTE SHOULD BE RECYCLED OR DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. EPA WASTE NUMBER=D011. BEFORE DISPOSAL WASTE SHOULD BE TESTED FOR TOXICITY CHARACTERISTICS (TC ) FOLLOWING EPA PROCEDURES 40 CFR 261.

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

Transport Information:NOT REGULATED.

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

SARA Title III Information:SARA

311/312 HAZARD CATEGORIES: ACUTE AND

CHRONIC= YES. FIRE, REACTIVITY, RELEASE OF PRESSURE= NO. SEC 313

NOTIFICATION: THIS PRODUCT CONTAINS TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SEC 313 (40 CFR 372). THIS PRODUCT DOES NOT CONTAIN OZONE DEPLETING SUBSTANCES (ODS).

State Regulatory Information:VOLATILE ORGANIC COMPOUNDS=NONE. CANADIAN REGULATIONS DSL/NDL: NOT DETERMINED. WHMIS CLASSIFICATION= NOT DETERMINED. EINECS; NOT DETERMINED. OTHER REGS MITI AND AICS= NOT DETERMINED.

=====  
===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and

assume responsibility for the suitability of this information to their particular situation.