

AUFHAUSER BROTHERS CORPORATION -- FLUX COATED SILVER ALLOY -- 3439-00-968-3557  
===== Product Identification =====

Product ID:FLUX COATED SILVER ALLOY  
MSDS Date:12/06/1991  
FSC:3439  
NIIN:00-968-3557  
MSDS Number: BRMGL  
=== Responsible Party ===  
Company Name:AUFHAUSER BROTHERS CORPORATION  
Address:39 WEST MALL  
City:PLAINVIEW  
State:NY  
ZIP:11803-4209  
Country:US  
Info Phone Num:516-694-8695  
Emergency Phon  
e Num:516-694-8695  
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  
CAGE:59401

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

Ingred Name:SILVER (SARA III)  
CAS:7440-22-4  
RTECS #:VW3500000  
Fraction by Wt: 20-50%  
OSHA PEL:0.01 MG/M3  
ACGIH TLV:0.1 MG/M3; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:COPPER (SARA III)  
CAS:7440-50-8  
RTEC

S #:GL5325000  
Fraction by Wt: 15.5-45%  
OSHA PEL:0.1MG/M3 FUME/1 DUST  
ACGIH TLV:0.2MG/M3 FUME; 9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
Fraction by Wt: 0-2%  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9192

Ingred Name:ZINC (SARA III)  
CAS:7440-66-6  
RTECS #:ZG8600000  
Fraction by Wt: 15.5-30%  
OSHA PEL:10 MG ZNO/M3  
ACGIH TLV:10 MG ZNO/M3; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fracti  
on by Wt: 3.0%  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192

Ingred Name:POTASSIUM HYDROGEN FLUORIDE  
CAS:7789-29-9  
RTECS #:TS6650000  
Fraction by Wt: 0-30%  
OSHA PEL:2.5 MG/M3 (F)  
ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name:POTASSIUM TETRAFLUOBORATE  
CAS:14075-53-7  
RTECS #:ED2800000  
Fraction by Wt: 0-20%

Ingred Name:POTASSIUM FLUORIDE  
CAS:7789-23-3  
RTECS #:TT0700000  
Fraction by Wt: 0-15%  
OSHA PEL:2.5 MG/M3 (F)  
ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name:BORIC ACID  
CAS:10043-35-3  
RTECS #:ED4550000  
Fracti

on by Wt: 0-40%

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 0-35%

Ingred Name:POTASSIUM BORATE  
CAS:1332-77-0  
Fraction by Wt: 0-25%  
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:CHRONIC EXPOSURE TO WELDING FUMES CAN  
LEAD TO SIDEROSIS AND AFFECT PULMONARY FUNCTION. CHR  
ONIC EXPOSURE  
TO FLUX MAY CAUSE WEIGHT LOSS, BRITTLE BONES, ANEMIA, WEAKNESS, AND  
STIFF JOINTS. ARC AND HEAT R AYS CAN INJURE EYES AND BURN SKIN.  
ELECTRIC SHOCK CAN KILL. NOISE CAN DAMAGE HEARING.  
Explanation of Carcinogenicity:NICKEL IS LISTED UNDER NTP AND IARC.  
Effects of Overexposure:ACUTE EXPOSURE TO WELDING FUMES MAY CAUSE  
DIZZINESS,NAUSEA,DRYNESS,IRRITATION OF EYES,NOSE AND THROAT. ACUTE  
EXPOSURE TO FLUX MAY CAUSE SALIVATION,COUGHING,CHOKING,AND CHILLS.  
Medical Cond Ag  
gravated by Exposure:AGGRAVATION OF EXISTING RESPIRATORY  
OR ALLERGIC CONDITIONS. ANY WEAKNESS OF THE LUNGS, KIDNEYS OR LIVER  
WILL BE AGGRAVATED. HIGHER LEVEL OF LUNG RELATED PROBLEMS AMONG  
SMOKERS.

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

First Aid:IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO REMOVAL  
FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. REMOVE FROM  
EXPOSURE AREA AND CALL FOR MEDICAL AID. ADMINISTER OXYGEN IF  
BREATHING I  
S D IFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL  
RESPIRATION. IF NO DETECTABLE PULSE, BEGIN EXTERNAL HEART MASSAGE.  
EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL.  
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &  
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER  
SPRAY TO COOL N

EARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:WELDING ARC AND SPARKS CAN IGNITE  
COMBUSTIBLE AND FLAMMABLE PRODUCTS. FIRE OR EXCESSIVE HEAT MAY  
CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE  
AND PLACE IN APPROPRIATE DISPOSAL CONTAINER.

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

Other Precautions:TR

AIN WELDER TO KEEP HIS HEAD OUT OF THE  
FUMES.MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES.AVOID ELECTRICAL  
SHOCK BY MAINTAINING DRY WORK AREA.

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

Respiratory Protection:FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN  
CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW  
TLV.

Ventilation:LOCAL EXHAUST TO KEEP BELOW TLV.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS

Other Protective Equipment:SUBSTANTIAL DARK CLOTH,ARM  
PROTECTOR,APRON,HAT AND SHOULDER PROTECTION.

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING,SMOKING OR  
USING SANITARY FACILITIES.

Supplemental Safety and Health  
NONE.

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

HCC:N1

Boiling Pt:B.P. Text:1170F,632C

Spec Gravity:9.49

Solubility in Water:SLIGHT FOR COATING.

Appearance and Odor:FLUX COATED SILVER ROD.

===== Stability and Reactivity

Data =====

Stability Indicator/Materials to Avoid: YES  
NONE NOTED.

Stability Condition to Avoid: NONE NOTED.

Hazardous Decomposition Products: ZINC, HYDROFLUORIC ACID,  
BROMOTRIFLUORIDE, CARBON MONOXIDE, CARBON DIOXIDE, OZONE, NITROGEN  
OXIDES, METAL & METAL OXIDES

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

Waste Disposal Methods: SEND FOR RECLAMATION OF SILVER, OR DISPOSE OF IN  
ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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