

JW HARRIS CO INC -- SAFETY-SILV 1200 -- 3439-01-046-3655

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

Product ID:SAFETY-SILV 1200  
MSDS Date:10/01/1992  
FSC:3439  
NIIN:01-046-3655  
MSDS Number: BGHPN  
=== Responsible Party ===  
Company Name:JW HARRIS CO INC  
Address:10930 DEERFIELD RD  
City:CINCINNATI  
State:OH  
ZIP:45242  
Country:US  
Info Phone Num:513-891-2000  
Emergency Phone Num:800-424-9300 (CHEMTREC)  
CAGE:HO350

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= Contractor Identification ===  
Company Name:J. W. HARRIS CO., INC.  
Address:10930 DEERFIELD ROAD  
Box:City:CINCINNATI  
State:OH  
ZIP:45242-4110  
Country:US  
Phone:513-891-2000  
CAGE:27911  
Company Name:JW HARRIS CO INC  
Address:10930 DEERFIELD RD  
Box:City:CINCINNATI  
State:OH  
ZIP:45242  
Country:US  
Phone:513-891-2000  
CAGE:HO350

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

Ingred Name:SILVER (SARA 313) (CERCLA)  
CAS:7440-22-4  
RTECS #:VW3500000  
Fraction by Wt: 56%  
OSHA PEL:0.01 MG/M3

ACGIH TLV:0.1 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:COPPER (SARA 313) (CERCLA)  
CAS:7440-50-8  
RTECS #:GL5325000  
Fraction by Wt: 22%  
OSHA PEL:0.1MG/M3 FUME;1 DUST  
ACGIH TLV:0.2 MG/M3 FUME  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ZINC OXIDE (SARA 313) (CERCLA)  
CAS:1314-13-2  
RTECS #:ZH4810000  
Fraction by Wt: 17%  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST

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

Ingred  
Name:BORATE (1-), TETRAFLUORO-, POTASSIUM; (POTASSIUM FLUOBORATE  
AS F)  
CAS:14075-53-7  
RTECS #:ED2800000  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:POTASSIUM METABORATE; (BORIC ACID)  
CAS:11113-50-1  
OSHA PEL:10 MG/M3 BORATE  
ACGIH TLV:5 MG/M3 BORATE

Ingred Name:POTASSIUM BORATE; (POTASSIUM TETRABORATE AS BORATES)  
CAS:1332-77-0  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:SUPDAT: W/RESPECT TO FUME PLUME AS WELL AS PRESENCE OF  
CONTAMINANTS IN ATM (SUCH AS CHLORINATED HYDROCARB VAPS (ING 9)  
RTECS

#:9999999ZZ

Ingred Name:ING 8: FROM CLEANING & DEGREASING ACTIVITIES). WHEN FILLER METAL IS CONSUMED, FUME & GAS DECOMP PRODS GENERATED (ING 10)  
RTECS #:9999999ZZ

Ingred Name:ING 9:ARE DIFFERENT IN PERCENT & FORM FROM LISTED SOLID WIRE/ROD INGREDIENTS. FUME & GAS DECOMP PRODS & NOT INGREDIENTS (ING 11)  
RTECS #:9999999ZZ

Ingred Name:ING 10: IN ROD/WIRE ARE IMPORTANT. CONC OF GIVEN FUME/GAS COMPONENT MAY DECR OR INCR BY MANY TIMES THE ORIGINAL (ING 12)  
RTECS #:9999999ZZ

Ingred Name:ING 11  
:CONC IN FILLER METAL. DECOMP PRODS OF NORM OPERATION INCL THOSE ORIGINATING FROM VOLATILIZATION REACTION (ING 13)  
RTECS #:9999999ZZ

Ingred Name:ING 12: OF THE WIRE.  
RTECS #:9999999ZZ

Ingred Name:VENT: EMPLOYEE TO KEEP HIS/HER HEAD OUT OF THE FUMES. SEE ANSI/ASC Z49.1 SECTION 5.  
RTECS #:9999999ZZ

Ingred Name:EYE PROT: & FULL LENGTH FACESHIELD . USE FACESHIELD W/FILTER LENS OF APPROP SHADE NUMBER (SEE ANSI/ASC (ING 16)  
RTECS #:9999999ZZ

Ingred Name:ING 15: Z49.1-SECTION 4.2). PROVIDE PROT SCREENS & FLASH GOGGLES, IF NECESSARY, TO SHIELD OTHERS.  
RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP: INCL WELDER'S GLOVES & PROT FSHLD & MAY INCL ARM PROTECTORS, APRONS, HATS, SHOULDER PROT, AS (ING 18)  
RTECS #:9999999ZZ

Ingred Name:ING 17: WELL AS DARK SUBSTANTIAL CLOTHING.  
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports

of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACTUAL EXPOS SHOULD BE DETERMD BY  
MONITORING FUME IN OPERATOR'S BRTHG ZONE. COPPER & ZINC FUME MAY  
CAUSE METAL FUME FEVER. SHORT TERM SYMPS MAY INCL METALLIC TASTE IN  
MOUTH, DRYNESS/IRRIT OF THROAT FO LLOWED BY COUGH, SHORTNESS OF  
BRTH, NAUS, FEVER, BODY ACHES & CHILLS. LONG TERM EXPOS TO WELDING  
FUME, (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ: G

ASES OR DUST MAY CONTRIBUTE TO PULM

IRRIT OR PNEUMOCONIOSIS. BRAZING ALLOYS ARE FREQUENTLY USED  
W/FLUORIDE TYPE FLUX. IF APPLICABLE, FLUX FUME SHOULD BE CONSIDERED  
IN EVALUATION OF HAZARDS.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED PULMONARY  
FUNCTIONS OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY FUME  
IRRITANTS.

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

First Aid:INGEST: CALL MD IMMEDIATELY . EYES: IMMEDIATELY FLUSH  
W/POTABLE  
WATER FOR A MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM  
MD . SKIN: FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD . INHAL:  
REMOVE FROM DUST OR FUME EXPOSURE. IF BREATHING HAS STOPPED,  
PERFORM ARTIFICIAL RESPIRATION. SUMMON MEDICAL AID IMMEDIATELY.

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

Flash Point:NONFLAMMABLE

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE .

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA AND FULL  
PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:OPEN FLAME AND SPARKS CAN IGNITE  
COMBUSTIBLES.

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

Spill Release Procedures:NOT APPLICABLE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:READ & UNDERSTAND MFR'S INSTRUCTIONS &  
LABEL ON PROD. SEE SNSI/AWS PUBLICATION, "SFTY IN WELDING &  
CUTTING" & OSHA 29 CFR 1910 FOR MORE DETAIL.

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Precautions: ONE REC WAY TO DETERM COMPOSITION & QTY OF FUMES & GASES TO WHICH WORKERS ARE EXPOS IS TO TAKE AIR SAMPLE IN WORKER'S BRTHG ZONE. SEE ANSI/AWS F1.1 AVAIL FROM AWS. PRODS ARE SHIPPED NONHAZ, NONFLAMM, NONEXPLO & NONREACTIVE SOLID MATLS.

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Exposure Controls/Personal Protection  
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Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN BRAZING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation: USE ENOUGH VENT, LOC EXHST AT FLAME TO KEEP FUMES & GASES BELOW TLV'S IN WORKER'S BRTHG ZONE & GEN AREA. TRAIN (ING 14)

Protective Gloves: WELDER'S GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS (ING 15)

Other Protective Equipment: WEAR HEAD & BODY PROT WHICH HELP PVNT INJURY FROM HEAT, RADIA, SPKS & FLAME. SEE ANSI 149.1. AT MINIMUM THIS (ING 17)

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental

Safety and Health

HAZ DECOMP PROD: PROCESS, PROC & FILLER METALS USED. OTHER CNDTNS WHICH INFLUENCE COMPOSITION & QTY OF FUMES & GASES WHICH WORKERS MAY BE EXPOS INCL: COATING ON METAL BEING BRAZED (SUCH AS PAINT/PLATING/GALVANIZING), NUMBER OF OPERATORS & VOL OF WORK AREA, QUALITY & AMT OF VENT, POSITION OF OPERATOR'S HEAD (ING 8)

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Physical/Chemical Properties  
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HCC: N1

Appearance and Odor: NONE SPECIFIED BY MANUFACTURER.

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Stability and Reactivity Data  
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Stability and Reactivity Data

Stability Indicator/Materials to Avoid: YES  
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: BRAZING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. COMPOSITION & QTY ARE BOTH DEPENDENT ON METAL BEING BRAZED, (SUPDAT)

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Disposal Considerations  
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Waste Disposal Methods: DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND

## LOCAL REGULATIONS .

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