

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

===== 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

==

= 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

===== 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). PROV  
IDE 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

===== 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.

===== 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.

===== 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.

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

Spill Release Procedures:NOT APPLICABLE.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== 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.

O

ther 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.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN BRAZING IN CONFINED SPACE OR WHERE LOCAL EXHAUST O  
R 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)

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

HCC:N1

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

=====

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)

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

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

## LOCAL REGULATIONS .

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.