

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., I
NC.

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 N

ame: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 ACTI

VITIES). 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 INGREDs. FUME & GAS DECOMP PRODS & NOT INGREDs (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 T
HOSE 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 OT
HERS.
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 Acu

te 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: GASES 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.

Other Precautions:ONE REC WAY TO DETERM COMPOSITION & QTY OF FUME

S &

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 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/PLATI
NG/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 Ind

icator/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 .

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