

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/M

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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)
RTEC

S #: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 1
1: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

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

Report

s 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:

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.

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

First Aid:INGEST: CALL MD IMMEDIATELY . EYES: IMMEDIATELY FLUSH W/POTABL

E 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.

Other 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 =====

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 =====

HCC:N1

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

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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 =====

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

LOCAL REGULATIONS .

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particular situation.