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J W HARRIS -- STAY-SILV WHITE BRAZING FLUX, STAY-SILV BLACK - FLUX, BRAZING MATERIAL SAFETY DATA SHEET  
NSN: 3439002203825  
Manufacturer's CAGE: 27911  
Part No. Indicator: D  
Part Number/Trade Name: STAY-SILV WHITE BRAZING FLUX, STAY-SILV BLACK BRAZING FLUX

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General Information  
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Item Name: FLUX, BRAZING  
Company's Name: J.W.HARRIS CO.INC.  
Company's Street: 10930 DEERFIELD ROAD  
Company's City: CINCINNATI  
Company's State: OH  
Company's Country: US  
Company's Zip Code: 45242  
Company's Emerg Ph #: 513-891-2000/800-424-9300 (CHEMTREC)  
Company's Info Ph #: 513-891-2000  
Record No. For Safety Entry: 004  
Tot Safety Entries This Stk#: 004  
Status: FM  
Date MSDS Prepared: 01APR95  
Safety Data Review Date: 20SEP96  
Supply Item Manager: CX  
MSDS Serial Number: CBRWW  
Hazard Characteristic Code: N1  
Unit Of Issue: BT  
Unit Of Issue Container Qty: 7 OUNCES  
Net Unit Weight: 7 OUNCES

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Ingredients/Identity Information  
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Proprietary: NO  
Ingredient: POTASSIUM BORATE INGREDIENTS 1-3 EQUAL 30-60%.  
Ingredient Sequence Number: 01  
Percent: 30-60%  
NIOSH (RTECS) Number: 1001388PB  
CAS Number: 1332-77-0  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED  
Other Recommended Limit: NONE RECOMMENDED  
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Proprietary: NO  
Ingredient: POTASSIUM PENTABORATE INGREDIENTS 1-3 EQUAL 30-60%.  
Ingredient Sequence Number: 02  
Percent: 30-60 %  
NIOSH (RTECS) Number: 1005916PP  
CAS Number: 11128-29-3  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED  
Other Recommended Limit: NONE RECOMMENDED  
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Proprietary: NO  
Ingredient: BORIC ACID INGREDIENTS 1-3 EQUAL 30-60%.  
Ingredient Sequence Number: 03  
Percent: 30-60 %

NIOSH (RTECS) Number: ED4550000  
CAS Number: 10043-35-3  
OSHA PEL: 10 MG BORATES/M3  
ACGIH TLV: 5 MG BORATES/M3  
Other Recommended Limit: NONE RECOMMENDED

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Proprietary: NO  
Ingredient: POTASSIUM HYDROGEN FLUORIDE  
Ingredient Sequence Number: 04  
Percent: 25-40 %  
NIOSH (RTECS) Number: TS6650000  
CAS Number: 7789-29-9  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED  
Other Recommended Limit: NONE RECOMMENDED

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Proprietary: NO  
Ingredient: WATER  
Ingredient Sequence Number: 05  
Percent: 15-25 %  
NIOSH (RTECS) Number: ZC0110000  
CAS Number: 7732-18-5  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED  
Other Recommended Limit: NONE RECOMMENDED

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#### Physical/Chemical Characteristics

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Appearance And Odor: SMOOTH PASTE OR POWDER WITH NO ODOR  
Boiling Point: NOT GIVEN  
Melting Point: NOT GIVEN  
Vapor Pressure (MM Hg/70 F): NOT GIVEN  
Vapor Density (Air=1): NOT GIVEN  
Specific Gravity: 1.66(BLACK)  
Decomposition Temperature: UNKNOWN  
Evaporation Rate And Ref: NOT GIVEN  
Solubility In Water: MODERATE  
Percent Volatiles By Volume: NIL  
Corrosion Rate (IPY): UNKNOWN

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#### Fire and Explosion Hazard Data

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Flash Point: NONFLAMMABLE  
Lower Explosive Limit: NOT GIVEN  
Upper Explosive Limit: NOT GIVEN  
Extinguishing Media: NONFLAMMABLE. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE.  
Special Fire Fighting Proc: NONFLAMMABLE. USE STANDARD FIREFIGHTING PROCEDURES FOR SURROUNDING MATERIALS IN THE FIRE.  
Unusual Fire And Expl Hazrds: NONE SPECIFIED BY MANUFACTURER.

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#### Reactivity Data

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Stability: YES  
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.  
Materials To Avoid: NONE SPECIFIED BY MANUFACTURER.  
Hazardous Decomp Products: NONE SPECIFIED BY MANUFACTURER.

Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NONE. WILL NOT OCCUR.

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Health Hazard Data  
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LD50-LC50 Mixture: NOT GIVEN FOR PRODUCT AS A WHOLE  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: NO  
Health Haz Acute And Chronic: INHALATION OF FUMES DURING BRAZING OPERATION  
MAY BE IRRITATING TO SKIN, EYES AND RESPIRATORY TRACT. COATINGS ON THE  
METAL BEING SOLDERED MAY PRODUCE FUMES WHICH ARE HAZARDOUS. ACTUAL EXPOSURE  
SHOULD BE DETERMINED BY MONITORING THE FUMES IN THE OPERATOR'S BREATHING  
ZONE.  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: THIS COMPOUND CONTAINS NO INGREDIENTS AT  
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT  
CARCINOGENS.  
Signs/Symptoms Of Overexp: EYE IRRITATION, SKIN IRRITATION, RESPIRATORY  
TRACT IRRITATION.  
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.  
Emergency/First Aid Proc: REMOVE FROM FUMES EXPOSURE. IF BREATHING HAS  
STOPPED, PERFORM ARTIFICIAL RESPIRATION. IF SWALLOWED, INDUCE VOMITING.  
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. FOR SKIN CONTACT,  
WASH WITH WATER. FOR EYE CONTACT, IMMEDIATELY FLUSH EYES FOR 15 MINUTES  
WITH PLENTY OF WATER. GET MEDICAL AID IMMEDIATELY.

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Precautions for Safe Handling and Use  
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Steps If Matl Released/Spill: LARGE SPILLS SHOULD BE NEUTRALIZED WITH A  
SLAKED LIME-SODA ASH SLURRY. FOLLOW STATE, FEDERAL AND LOCAL REGULATIONS.  
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.  
Waste Disposal Method: PREVENT WASTE FROM CONTAMINATING SURROUNDING  
ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN  
ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.  
Precautions-Handling/Storing: DO NOT GET IN EYES, ON SKIN, MOUTH OR  
CLOTHING. AVOID BREATHING FUMES. HAZARDOUS MAINLY DURING BRAZING OPERATION,  
NOT DURING HANDLING AND STORAGE.  
Other Precautions: NONE SPECIFIED BY MANUFACTURER.

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Control Measures  
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Respiratory Protection: NONE REQUIRED UNDER NORMAL CONDITIONS OF HANDLING  
AND STORAGE.  
Ventilation: LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION AS  
REQUIRED TO MAINTAIN EXPOSURE LEVELS.  
Protective Gloves: NONE REQUIRED UNDER NORMAL CONDITIONS  
Eye Protection: NONE REQUIRED UNDER NORMAL CONDITIONS  
Other Protective Equipment: CHEMICAL RESISTANT CLOTHING AS NECESSARY TO  
PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.  
Work Hygienic Practices: WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE  
EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.  
Suppl. Safety & Health Data: SEE AMERICAN NATIONAL STANDARD Z49.1, SAFETY  
IN WELDING AND CUTTING PUBLISHED BY THE AMERICAN WELDING SOCIETY FOR  
GUIDELINES FOR USE OF PRODUCT DURING BRAZING/WELDING OPERATIONS.

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Transportation Data  
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Trans Data Review Date: 96264  
DOT PSN Code: ZZZ  
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION  
IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
AFI PSN Code: ZZZ  
AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
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Disposal Data  
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Label Data  
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Label Required: YES  
Technical Review Date: 20SEP96  
MFR Label Number: NONE  
Label Status: F  
Common Name: STAY-SILV WHITE BRAZING FLUX, STAY-SILV BLACK  
BRAZING FLUX  
Chronic Hazard: NO  
Signal Word: CAUTION!  
Acute Health Hazard-Slight: X  
Contact Hazard-Slight: X  
Fire Hazard-None: X  
Reactivity Hazard-None: X  
Special Hazard Precautions: DO NOT GET IN EYES, ON SKIN, MOUTH OR  
CLOTHING. AVOID BREATHING FUMES. HAZARDOUS MAINLY DURING BRAZING OPERATION,  
NOT DURING HANDLING AND STORAGE. FIRST AID: REMOVE FROM FUMES EXPOSURE. IF  
BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. IF SWALLOWED, INDUCE  
VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. FOR SKIN  
CONTACT, WASH WITH WATER. FOR EYE CONTACT, IMMEDIATELY FLUSH EYES FOR 15  
MINUTES WITH PLENTY OF WATER. GET MEDICAL AID IMMEDIATELY.  
Protect Eye: Y  
Protect Skin: Y  
Label Name: J.W.HARRIS CO.INC.  
Label Street: 10930 DEERFIELD ROAD  
Label City: CINCINNATI  
Label State: OH  
Label Zip Code: 45242  
Label Country: US  
Label Emergency Number: 513-891-2000/800-424-9300 (CHEMTREC)