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Product ID:SAFETY-SILV 56 MSDS Date:04/07/2000 FSC:3439 NIIN:01-047-4141 Status Code:A Kit Part:Y MSDS Number: CLJXN === Responsible Party === Company Name: J.W. HARRIS CO, INC Address:4501 QUALITY PLACE City:MASON State:OH ZIP:45040 Country:US Info Phone Num:800-733-4533 Emergency Phone Num:800-424-9300 Re sp. Party Other MSDS Num.:0127 Chemtrec Ind/Phone:(800)424-9300 CAGE:UO662 === Contractor Identification === Company Name: J.W. HARRIS CO, INC Address:4501 QUALITY PLACE Box:City:MASON State:OH ZIP:45040 Country:US Phone:800-733-4533 CAGE:UO662 Company Name: LAND M WELDING SUPPLY INC Address:568 WESTERN DR Box:City:MOBILE State:AL ZIP:36607-1420 Country:US Phone:334-470-9997 Contract Num:SP0450-01-M-XH99 CAGE:1HJ95

Ingred Name

:SILVER CAS:7440-22-4 RTECS #:VW3500000 = 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 CAS:7440-50-8 RTECS #:GL5325000 = Wt:22. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:ZINC CAS:7440-66-6 RTECS #:ZG8600000 = Wt:17. EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:TIN CAS:7440-31-5 RTECS #:XP7320000 = Wt:5. ACGIH TLV:2 MG/M3

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Reports of Carcinogenicity:NTP:YES IARC:YES Health Hazards Acute and Chronic:ACUTE: THE CHIEF ACUTE HEALTH HAZARD ASSOCIATED WITH THESE PRODUCTS WOULD BE THE POTENTIAL FOR IRRITATION OF CONTAMINATED SKIN & EYES WHEN EXPOSED TO FUMES DURING BRAZING OPERATIONS. INHALTION OF LARG E AMOUNTS OF PARTICULATES GENERATED BY THESE PRODUCTS DURING METAL PROCESSING OPERATIONS MAY BE PHYSICALLY IRRITATING & CAUSE DEPOSITS OF DUST IN NASAL PASSAGES. INHALATION OF DUSTS & FUM ES OF COPPER, MANGANESE & ZINC

CAN CAUSE METAL FUME FEVER.CONTACT WOTH MOLTEN MATERIAL WILL BURN CONTAMINATED SKIN OR EYES. IF PARTICULATES OR FUMES, GENERATED DURING BRAZING OPERATIONS ARE INGESTED. SEVERE INGEST ION MAY BE FATAL.

Explanation of Carcinogenicity:NICKEL, ELEMENTAL, METAL: POSSIBLE CARCINOGENIC TO HUMANS.

Effects of Overexposure:METAL FUME FEVER: METALLIC OR SWEET TAST IN MOUTH, SWEATING, SHIVERING, HEADACHE, THROAT IRRITATION, FEVER, CHILLS, THIRSTINE

SS, MUSCLE ACHES, NAUSEA, VOMITING, WEAKNESS,

FATIGUE AND SHORTNESS OF BREA TH. INGESTION: STOMACH ACHE, DEGENERATION OF BLOOD AND LIVER CELLS, GASTROINTESTINAL BLEEDING, DECREASED URINE OUTPUT, LISTLESSNESS, RAPID HEARTBEAT, CONVULSIONS AND COMA.BURN MOUTH, THROAT, ESOPHAGUS AND OTHER TISSUES OF THE DIGESTIVE SYSTEM. SKIN: PUSTULAR DERMITITIS. INGESTION: KIDNEY DAMAGE, ASTHMA, AND PAIN IN JOINTS AND MUSCLES TARGET ORGANS: SKIN, EYES, RESPIRATORY SYSTEM.

Medical Cond

Aggravated by Exposure:NO DATA PROVIDED BY MANUFACTURER

First Aid:VICTIMS & RESCUERS SHOULD BE TAKEN FOR MEDICAL ATTENTION. SKIN: BEGIN DECONTAMINATION WITH RUNNING WATER. IF MOLTEN MATRIAL, IMMEDIATELY BEGIN DECOMTAMINATION WITH COLD, RUNNING WATER. MINIMUM FLUSHIN G IS FOR 15 MINUTES.VICTIM MUST SEEK MEDICAL ATTENTION IF ANY ADVERSE REACTION OCCURS. EYE: OPEN VICTIM'S EYES WHILE UNDER GENTLY RUNNING WAT

ER. USE SUFFICIENT FORCE TO OPEN EYELIDS. HAVE VICTIM "ROLL " EYES. MINIMUM FLUSHING IS FOR 15 MINUTES. SEEK MEDICAL ATTENTION. INHALATION: REMOVE VICTIM TO FRESH AIR. IF NECESSARY, USE ARTIFICIAL RESPIRATION TO SUPPORT VITAL FUNCTIONS. INGESTION: CALL PHYSICI AN IMMEDIATELY. DO NOT INDUCE VOMITING.

Flash Point:NOT FLAMMABLE

Extinguishing Media:WATER SPRAY, HALON, DRY CHEMICAL, CARBON DIOXIDE, FOAM, ANY "A

BC" CLASS

Fire Fighting Procedures:FIRE RESPONDERS SHOULD WEAR EYE PROTECTION. STRUCTURAL FIRE FIGHTERS MUST WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FACE PROTECTIVE EQUIPMENT. CHEMICAL RESISTANT CLOTHING MAY BE NECESSARY. IF P OSSIBLE, PREVENT RUN-OFF WATER FORM ENTERING STORM DRAINS, BODIES OF WATER, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS.

Unusual Fire/Explosion Hazard:IN A FIRE THESE PRODUCTS MAY GENERATE IRRITATING FUMES AND A VARIETY OF METAL OXIDES. IF INV

OLVED IN A

FIRE, THE FLUX COATING ON THE FLUX COATED PRODUCTS MAY DECOMPOSE AND RELEASE FLUORIDE COMPOUNDS, BORIC ANHYDRIDE, AND HYDROGEN FLUORIDE. THE MOLTEN RODS CAN PRESENT SIGNIFICANT THERMAL HAZARDS TO FIREFIGHTERS

Spill Release Procedures:NO DATA PROVIDED BY MANUFACTURER Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER

Handling and

Storage Precautions: USE IN PROPERLY VENTED LOCATION. OPEN CONTAINERS ON A STABLE SURFACE. STORE PACKAGES IN A COOL, DRY LOCATION. STORAGE IN AN ATMOSPHERE THAT IS WET, MOIST OR HIGHLY HUMID MAY LEAD TO CORROSION OF THESE PRODUCTS. STORE AWAY FROM INCOMPATIBLE MATERIALS.

Other Precautions: ALL EMPLOYEES WHO HANDLE THESE PRODUCTS SHOULD BE TRAINED TO HANDLE THEM SAFELY. AVOID GETTING THESE PRODUCTS ON YOU OR IN YOU. WASH HANDS AFTER HANDLING THESE PRODUCTS. DO NOT EAT OR

DRINK WHILE HAND LING THESE PRODUCTS.

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

Respiratory Protection: IF RESPIRATORY PROTECTION IS NEEDED USE ONLY PROTECTION AUTHORIZED IN 29CFR1910.134 OR APPLICABLE STATE REGULATIONS. RESPIRATORY PROTECTION IS RECOMMENDED TO BE WORN DURING WELDING OPERATIONS. OXYGEN LEVELS BELOW 19.5% ARE CONSIDERED IDLH BY OSHA. IN SUCH ATMOSPHERES USE OF A FULL-FACEPIECE PRESSUR/DEMAND SCBA OR FULL FACEPIECE, SUPPLIED AIR RESPIRATOR.

Ventilation: USE WITH ADEQUATE VENTILATION TO ENSURE EXPOSURE LEVELS ARE MAINTAINED BELOW THE LIMITS PROVIDES.

Protective Gloves:WEAR GLOVES FOR ROUTINE INDUSTRIAL USE. BRAZING WEAR PER ANSI Z49.1-1988

Eye Protection:SAFETY GLASSES. BRAZING: SAFETY GLASSES, GOGGLES, FACE SHIELD WITH FILTER LENS

Other Protective Equipment:WEAR BODY PROTECTION APPROPRIATE FOR TASK. EYEWASH/SAFETY SHOWER STATIONS ARE AVAILABLE NEAR WORK AREAS. Work Hygienic Practices:NO DATA PROVIDED BY MANUFACTURER Supplemental Safety and Health

NO DATA PROVIDED BY MANUFACTURER

HCC:N1 Boiling Pt:=2595.C, 4703.F B.P. Text:COPPER Melt/Freeze Pt:=1083.C, #####F M.P/F.P Text:COPPER Spec Gravity:8.94 COPPER Evaporation Rate & amp; Reference:N/A (NBUAC=1) Solubility in Water:INSOLUBLE Appearance and Odor:ODORLESS, SOLID RODS WITH METALLIC LUSTER, MAY HAVE FLUX COATING.

======= Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, STRONG OXIDIZERS, ACETYLENE, HALOGENATED HYDROCARBONS, HALOGENS, AMMONIUM NITRATE. SULFUR, POTASSIUM, ALKALI, HYDROXIES, GLASS, OTHER SILICA BASED COMPOUNDS.
Stability Condition to Avoid:AVOID UNCONTROLLED EXPOSURE TO EXTREME TEMPERATURES, INCOMPATIBLE MATERIALS.
Hazardous Decomposition Products:BARE RODS: METAL OXIDES. COATED RODS: METAL OXIDES, BORIC ANHYDRIDE, FLUORIDE COMPOUNDS, AND HYDROGEN FLUORIDE.

Toxicological Information: MUTAGENICITY: THESE COMPONENTS ARE NOT REPORTED TO PRODICE MUTAGENIC EFFECTS IN HUMANS. EMBRYOTOXICITY: THESE COMPONENTS ARE NOT REPORTED TO PRODUCE EMBRYOTOXIC EFFECTS IN HUMANS. TERATOGENICITY: THES E COMPONENTS ARE NOT REPORTED TO CAUSE TERATOGENIC EFFECTS IN HUMANS. CLINICAL STUDIES ON TEST ANIMALS EXPOSED TO RELATIVELY HIGH DOSES OF COPPER INDICATE TERATOGENIC EFFECTS. REP RODUCTIVE TOXICITY: THESE COMPONENTS ARE NOT REPORTED TO CAUSE REPRODUCTUVE EFFECTS IN HUMANS. CLINICAL STUDIES ON TEST ANIMALS EXPOSED TO RELATIVELY HIGH DOSES OF COPPER INDICATE ADVERSE REPRODUCTIVE EFFECTS.

Ecological:ENVIRONMENTAL STABILITY: THE METAL COMPONENTS OF THESE PRODUCTS OCCUR NATURALLY IN THE ENVIRONMENT & ARE EXPECTED TO PERSIST IN THE ENVIRONMENT FOR AN EXTENDED PERIOD OF TIME. COMPONE

NTS OF THESE PROD UCTS WILL REACT WITH WATER AND AIR TO FORM A VARIETY OF STABLE METAL OXIDES AND INORGANIC COMPOUNDS. EFFECT OF MATERIAL ON PLANTS AND ANIMALS: THE COMPONENTS OF THESE PRODUCTS OCCUR NATURALLY IN THE E NVIRONMENT & ARE ESSENTIAL FOR PLANT & ANIMAL LIFE. THIS PRODUCT IS NOT EXPECTED TO CAUSE ADVERSE EFFECTS ON PLANT OR ANIMAL LIFE.

Waste Disposal Methods:WASTE DISPOSAL MUST BE IN ACCORDANCE WITH

APPROPRIATE FEDERAL, SSTATE AND LOCAL REGULATIONS. THESE PRODUCTS IF UNALTERED BY USE MAY BE DISPOSED OF BY TREATMENT AT A PERMITTED FACILITY OR AS ADVISED BY LOCAL HAZARDOUS WASTE REGULATORY AUTHORITY.

Transport Information: THIS MATERIAL IS NOT HAZARDOUS OER 49 CFR 172.101) BY THE US DEPARTMENT OF TRANSPORTATION. MARINE POLLUTANT: NO COMPONENT OF THIS PRODUCT IS DESIGNATED AS A MARINE POLLUTANT BY

THE DEPARTMENT OF TRANS PORTATION (49 CFR 172.101, APPENDIX B). TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS NOT CONSIDERED AS DANGEROUS GOODS, PER REGULATIONS OF TRANSPORT CANADA.

SARA Title III Information:SARA 302 (40 CFR 355, APPENDIX A): NONE. SARA 304 (40 CFR TABLE 302.4): COPPER, SILVER, ZINC. SARA 313: COPPER, SILVER, ZINC. US SARA THRESHOLD PLANNING QUAN TITY: THERE

ARE NO SPECIFIC THRESHOLD PLAN NING QUANTITIES FOR ANY COMPONENT OF THIS PRODUCT. THE DEFAULT FEDERAL MSDS SUBMISSION AND INVENTORY REQUIREMENT FILING THRESHOLDD OF 10,000 LBS (4,540 KG) MAY APPLY, PER 40 CFR 370.20.

Federal Regulatory Information: US TSCA INVENTORY STATUS: THE CONSTIUENTSS OF THESE PRODUCTS ARE LISTED ON THE TSCA INVENTORY. US CERCLA REPORTABLE QUANTITY (RQ): COPPER=5000 LBS, SILVER=1000 LBS, ZINC=1000 LBS. RQ'S FOR COPPER, SIL VER & ZINC

ARE APPLICABLE TO

PARTICLES 100 MICROMETERS OR LESS IN DIAMETER.OTHER US FEDERAL REGULATIONS: NOT APPLICABLE.

State Regulatory Information: ALASKA: COPPER, FUME, SILVER, TIN. CALIFONIA: COPPER MANGANESE, SILVER, TIN. FLORIDA: COPPER, FUME, SILVER, TIN, ZINC. ILLINOIS: COPPER, SILVER, ZINC. KANSAS: COPPER, SILVER, ZINC. MASSACHUSETTS: COPP ER, SILVER, TIN, ZINC. MICHIGAN: COPPER, SILVER, TIN, FUME. MINNESOTA: COPPER, SILVER, TIN, FUME. MISSOURI: OPPER, SILVER, TIN. NEW

JERSEY: COPPER, SILVER, TIN,

ZINC. NORTH DAKOTA: COPPER, SILVER, ZIN C. PENNSYLVANIA: COPPER, SILVER, TIN, ZINC.RHOSE ISLAD: COPPER, FUME, SILVER, TIN, ZINC. TEXAS: COPP ER, FUME, SILVER. WEST VIRGINIA: COPPER, FUME, SILVER. WISCONSIN: COPPER, FUME, SILVER.

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