

LUCAS-MILHAUPT INC -- SILVER-COPPER-PHOSPHORUS BRAZING ALLOYS

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MSDS Safety Information
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FSC: 3439
NIIN: 00-188-6982
MSDS Date: 01/19/1998
MSDS Num: CKXDH
Product ID: SILVER-COPPER-PHOSPHORUS BRAZING ALLOYS
MFN: 01
Responsible Party
Cage: 91874
Name: LUCAS-MILHAUPT INC
Address: 5656 SOUTH PENNSYLVANIA AVEN
UE
City: CUDAHY WI 53110
Info Phone Number: 414-769-6000
Emergency Phone Number: (800)424-9300
Chemtrec IND/Phone: (800)424-9300
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: 91874
Name: LUCAS-MILHAUPT INC A HANDY & HARMAN CO
Address: 5656 SOUTH PENNSYLVANIA AVENUE
City: CUDAHY WI 53110
Phone: 414-769-6000
Cage: 5W208
Name: ROBINSON TECHNICAL PRODUCTS CORP
Address: 115 RIVER
RD
City: EDGEWATER NJ 07020
Phone: UNKNOWN
Contract Number: SP0450-01-D-5067

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Item Description Information
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Item Manager: S9G
Item Name: BRAZING ALLOY,COPPER
Specification Number: QQ-B-650;AWS A5.8-92
Type/Grade/Class: BCUP-5
Unit of Issue: CO
Quantitative Expression: 00000000016OZ
UI Container Qty: 1
Type of Container: ROD

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Ingred

ients

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Cas: 7440-50-8
RTECS #: GL5325000
Name: COPPER
% low Wt: 27.
% high Wt: 92.6
OSHA PEL: 1 MG/M3 (DUST/MIST)
ACGIH TLV: 1 MG/M3 (DUST/MIST)
ACGIH STEL: NOT ESTABLISHED
EPA Rpt Qty: 5000 LBS
DOT Rpt Qty: 5000 LBS

Cas: 7723-14-0
RTECS #: TH3495000
Name: PHOSPHORUS
% low Wt: .01
% high Wt: 7.25
OSHA PEL: 0.1 MG/M3
ACGIH TLV: 0.1 MG/M3;0.02 PPM
ACGIH STEL: NOT ESTABLISHED
EPA Rpt Qty: 1 LB
DOT Rpt Qty: 1 LB
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Cas: 7440-22-4
RTECS #: VW3500000
Name: SILVER
% low Wt: .9
% high Wt: 73.
OSHA PEL: 0.01 MG/M3
ACGIH TLV: 0.1 MG/M3
ACGIH STEL: NOT ESTABLISHED
EPA Rpt Qty: 1 LB
DOT Rpt Qty: 1 LB
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Health Hazards Data
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LD50 LC50 Mixture: NO DATA PROVIDED BY MANUFACTURER
Route Of Entry Inds - Inhalation: YES
Effects of Exposure: INHALATION OF THE COMPONENTS OF THESE PRODUCT

S IS NOT

KNOWN TO PRESENT A SIGNIFICANT RISK TO HEALTH WHEN USED ACCORDING TO INSTRUCTIONS AND WITH APPROPRIATE PROTECTIVE MEASURES. INHALATION OF COMPONENT ELEMENTS HAS BEEN REPORTED TO CAUSE ONE OR MORE OF THE FOLLOWING SYMPTOMS

AND EFFECTS UPON EXCESSIVELY HIGH OR PROLONGED EXPOSURE.

Explanation Of Carcinogenicity: NO DATA PROVIDED BY MANUFACTURER.

Signs And Symptoms Of Overexposure: COPPER: ACUTE EXPOSURE MAY CAUSE RESPIRATORY TRACT IRRITATION, WEAKNESS, MUSCLE ACHE, CHILLS, COUGH

, AND METALLIC TASTE. CHRONIC EXPOSURE MAY DAMAGE THE LIVER, KIDNEY, SPLEEN, PANCREAS, AND BRAIN. PHOSPHORUS: THE RED FORM OF PHOSPHORUS IS STABLE AND RELATIVELY NON-TOXIC AT ROOM TEMPERATURE. WHEN HEATED IN THE PRESENCE OF AIR, IT IS CONVERTED TO PHOSPHORUS PENTOXIDE, WHICH IS CORROSIVE AND IRRITATING TO THE EYES. SILVER: CHRONIC EXPOSURE MAY PRODUCE ARGYRIA, A PERMANENT BLUE-GRAY DISCOLORATION OF THE SKIN, EYE, MUCOUS MEMBRANES, AND RESPIRATORY TRACT.

Medical Condition

Aggravated By Exposure: NO DATA PROVIDED BY MANUFACTURER.

First Aid: INHALATION: IF SIGN AND SYMPTOMS OF TOXICITY ARE OBSERVED, REMOVE SUBJECT FROM AREA, ADMINISTER OXYGEN, AND SEEK MEDICAL ATTENTION. KEEP THE SUBJECT WARM AND AT REST. PERFORM ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.

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Handling and Disposal
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Spill Release Procedures: IF A FINELY-DIVIDED FORM OF PRODUCT IS SPILLED, CLEAN

UP SPILLAGE SO AS TO MINIMIZE DISPERSION OF DUST. WET SWEEPING OR VACUUMING USING HEPA FILTRATION ARE RECOMMENDED.

Neutralizing Agent: NO DATA PROVIDED BY MANUFACTURER

Waste Disposal Methods: CONSULT THE MANUFACTURER FOR DISPOSITION OF UNUSED OR UNUSABLE PRODUCT.

Handling And Storage Precautions: DO NOT STORE IN PROXIMITY TO INCOMPATIBLE MATERIALS. SEE REACTIVITY SECTION.

Other Precautions: NO DATA PROVIDED BY MANUFACTURER.
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Fire and Explosion Hazard Information
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Extinguishing Media: USE DRY CHEMICAL. DO NOT USE WATER.

Fire Fighting Procedures: IF FIGHTING A FIRE IN WHICH THESE PRODUCTS ARE PRESENT, WEAR A SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: IN FINELY-DIVIDED FORM, THESE PRODUCTS MAY IGNITE WHEN EXPOSED TO FLAME OR BY REACTION WITH INCOMPAT

IBLE MATERIALS (SEE REACTIVITY SECTION). IF PRESENT IN A FIRE OR EXPLOSION, THEY MAY EMIT FUMES OF THE CONSTITUENT METALS OR METAL OXIDES AND PHOSPHORUS PENTOXIDE.

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Control Measures
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Respiratory Protection: IF AN EXPOSURE LEVEL EXCEEDS AN OSHA PEL (S) OR OTHER APPLICABLE STANDARD, USE A NIOSH-APPROVED RESPIRATOR HAVING A CONFIGURATION (CLASS, TYPE OF FACEPIECE, FILTER MEDIA, AS SIGNED PROTECTION FACTOR, E TC.)

APPROPRIATE TO THE CONCENTRATION OF THE CONTAMINANT(S) GENERATED. FOR GUIDANCE ON SELECTION AND USE OF RESPIRATORY PROTECTION, CONSULT ANSI Z88.2.

Ventilation: USE APPROPRIATE VENTILATION (E.G., DILUTION, LOCAL EXHAUST) ADEQUATE TO MAINTAIN CONCENTRATIONS TO WITHIN THEIR PELS OR OTHER APPLICABLE STANDARDS.

Protective Gloves: WEAR APPROPRIATE PROTECTIVE GLOVES

Eye Protection: PLASTIC-FRAME SPECTACLES WITH SIDE SHIELDS AND FILTER LENSES.

Other Protective Eq

uipment: WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN INJURIES FROM THE HAZARDS OF BRAZING AND/OR FOR PROLONGED OR REPEATED CONTACT WITH FINELY-DIVIDED FORMS OF PRODUCT. AVOID FLAMMABLE FABRICS

Work Hygienic Practices: TO MINIMIZE THE POSSIBILITY OF INGESTION, WASH HANDS AND FACE BEFORE EATING, DRINKING, APPLYING COSMETICS, OR USING TOBACCO.

Supplemental Safety and Health: NO DATA PROVIDED BY MANUFACTURER

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Physical/Chemical Pr
operties
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HCC: N1

Boiling Point: =643.3C, 1190.F

Spec Gravity: 7.86-8.44

Solubility in Water: INSOLUBLE

Appearance and Odor: ODORLESS LIGHT-COPPER METALS IN FORM OF WIRE, ROD, STRIP, POWDER, TAPE, GRAIN

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Reactivity Data
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Stability Indicator: YES ATE, CARBON DISULFIDE

Stability Condition To Avoid: STABLE AT ROOM TEMPERATURE. SILVER AND COPPER CAN

FORM UNSTABLE ACETYLIDES UPON CONTACT WITH ACETYLENE GAS.

Materials To Avoid: AMMONIA, HNO3, AZIDES, ETHANOL, ETHYLENE INIMO, MG; CHLOREATES, BROMATES, AND IODATES, INORGANIC AND ORGANIC PEROXIDES, PEROXYFORMIC ACIDS. MITROBENZENE, HALOGENS. PERMONOSULFURIC ACID. SEOC1, SEOF, SEF4, HYDRAZINE MONONIT

Hazardous Decomposition Products: HEATING TO ELEVATED TEMPERATURES MAY LIVERATE METAL/METAL OXIDE FUME AND PHOSPHORUS PENTOXIDE.

Hazardous Polymerization Indicator: NO

Con

ditions To Avoid Polymerization: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

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Toxicological Information
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Toxicological Information: NO DATA PROVIDED BY MANUFACTURER.
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Ecological Information
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Ecological: NO DATA PROVIDED BY MANUFACTURER.
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MSDS Transport Information
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Transport Information: HAZARD CLASS: SHIPMENT IS NOT CONTROLLED BY
USDOT/ICAO/IMO REGULATIONS.
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Regulatory Information
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Sara Title III Information: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS
SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY
PLANNING AND COMM

UNITY RIGHT-TO-KNOW ACT (EPCRA) OF 1986 AND 40 CFR 372: CAS#
7440-50-8, COPPER, 27.0-96.6%; CAS# 7723-14-0, PHOSPHOROUS, 0.01-7.25%,;
CAS# 7440-22-4, SILVER, 0.9-73-0%.

Federal Regulatory Information: NO DATA PROVIDED BY MANUFACTURER.

State Regulatory Information: NO DATA PROVIDED BY MANUFACTURER.
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Other Information
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Other Information: NO DATA PROVIDED BY MANUFACTURER.
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Transportation Information
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Responsible Party Cage: 91874
Trans ID NO: 155713
Product ID: SILVER-COPPER-PHOSPHORUS BRAZING ALLOYS
MSDS Prepared Date: 01/19/1998
Review Date: 01/02/2001
MFN: 1
Net Unit Weight: 1 LB
Multiple KIT Number: 0
Unit Of Issue: CO
Container QTY: 1
Type Of Container: ROD
Additional Data: NOT REGULATED PER MSDS.
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Detail D

OT Information

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DOT PSN Code: ZZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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Detail IMO Information

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IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
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Detail IATA Information

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IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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Detail AFI Information

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AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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HAZCOM Label

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Product ID: SILVER-COPPER-PHOSPHOR

US BRAZING ALLOYS

Cage: 91874

Company Name: LUCAS-MILHAUPT INC A HANDY & HARMAN CO

Street: 5656 SOUTH PENNSYLVANIA AVENUE

City: CUDAHY WI

Zipcode: 53110

Health Emergency Phone: (800)424-9300

Label Required IND: Y

Date Of Label Review: 01/02/2001

Status Code: A

Year Procured: 2001

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: WARNING

Respiratory Protection IND: NO

Health Hazard: Moderate

Contact Hazard: Slight

Fire Hazard: None

Reactiv

ity Hazard: None

Hazard And Precautions: TARGET ORGANS: N/P. INHALATION OF THE COMPONENTS OF THESE PRODUCTS IS NOT KNOWN TO PRESENT A SIGNIFICANT RISK TO HEALTH WHEN USED ACCORDING TO INSTRUCTIONS AND WITH APPROPRIATE PROTECTIVE MEASURES. INHALATION OF COMPONENT ELEMENTS HAS BEEN REPORTED TO CAUSE ONE OR MORE OF THE FOLLOWING SYMPTOMS AND EFFECTS UPON EXCESSIVELY HIGH OR PROLONGED EXPOSURE.

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