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Culloden, WV 25510  
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August 26, 2011

To: Safety Operations Manager

Subject: Federal Hazard Communication Standard

The U.S. Federal Hazard Communication Standard requires that manufacturers of certain specific products provide their customers with a **Material Safety Data Sheet (MSDS)** on hazardous chemicals present in their products.

Our products are qualified as “**Articles**” and as such are considered as having an end-use function and do not release or otherwise result in exposure to a hazardous chemical under normal conditions of use. Therefore, our products are exempt from the OSHA Standard.

All shipments from Service Wire Company, Inc. will contain a label with the packing slip advising the consignee of the federal regulation. The label includes a safety notice that trace amounts of lead and arsenic are included as required by the State of California (Proposition 65 Chemicals). A copy of the safety notice on this label is enclosed.

We will mail a copy of the appropriate MSDS to the consignee upon request. Each of our customers will receive a copy of our **MSDS for Aluminum, Copper, and Copper and Aluminum Electrical Wire and Cable** for their records. For further information, please contact us at the above address and telephone number.

Sincerely,

Jay Jefferson  
Operations Manager

Attachment:  
Safety Notice (1 page)  
MSDS for Aluminum (4 pages)  
MSDS for Copper (4 pages)

## **SAFETY NOTICE**

**SERVICE WIRE COMPANY, INC.  
300 DAVIS ROAD, CULLODEN, WV 25510  
PHONE: (304) 743-8650**

THIS PRODUCT, WHICH HAS AN END-USE FUNCTION AND DOES NOT RELEASE OR OTHERWISE RESULT IN EXPOSURE TO A HAZARDOUS CHEMICAL UNDER NORMAL CONDITIONS OF USE, IS EXEMPT FROM THE OSHA STANDARD ENTITLED "HAZARD" COMMUNICATION (29CFR1910.1200).

THIS PRODUCT CONTAINS ONE OR MORE OF THE FOLLOWING: COPPER, ALUMINUM, PVC, POLYETHYLENE, RUBBER, MYLAR, NYLON, ZINC, STEEL, AND/OR POLYESTER. WHEN SOLDERING, WIRE BRUSHING, CUTTING, OR USING OTHER HANDLING PROCEDURES; HAZARDOUS FUMES, DUST, OR PARTICLES MAY BE GENERATED. EXCESSIVE EXPOSURE TO FUMES/DUST MAY CAUSE IRRITATION TO EYES, SKIN, OR THE RESPIRATORY SYSTEM. WEAR PROPER EYE AND SKIN PROTECTION AND BREATHING EQUIPMENT. USE ADEQUATE VENTILATION.

FIRST AID: FOR FOREIGN BODIES IN EYES, IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER. SEEK MEDICAL ATTENTION IMMEDIATELY.

THE INSULATION USED IN OUR WIRE AND CABLE MAY CONTAIN TRACE AMOUNTS OF LEAD AND ARSENIC.

NO CFC'S WERE USED IN THE MANUFACTURING OF THIS PRODUCT.

FURTHER INFORMATION IS ON THE PRODUCT MATERIAL SAFETY DATA SHEETS AVAILABLE UPON REQUEST.

08/03/93

# MATERIAL SAFETY DATA SHEET

ISSUED: 07/16/90

SERVICE WIRE COMPANY, INC.

300 Davis Road  
Culloden, WV 25510  
(304) 743-8600

## A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: Aluminum Rod, Aluminum Wire

SIC CODE: 3357 (Drawing and Insulating Wire)  
3496 (Misc. Fabricated Wire Products)

CHEMICAL NAME: Aluminum

Service Wire Company, Inc. is a manufacturer of Aluminum electrical wire that is not sold for reprocessing or manufacturing. These electrical wire products, which have an end-use function and do not release or otherwise result in exposure to a hazardous chemical under normal conditions of use, are exempt from OSHA Standard titled, "Hazard Communications" (29CF1010.1200).

Rod is not produced by Service Wire Company and the information herein has been provided by Producer/Supplier of Rod for Service Wire Company.

### LABEL CODES:

HEALTH: 1 - Slight health hazard  
FIRE: 0 - Nonflammable  
REACTIVITY: 0 - Non-reactive

## B. COMPONENTS AND HAZARD INFORMATION:

COMPONENTS: \*Aluminum 97-99.99%  
CSA #: 7429-90-5  
TLV (ACGIH): 5.0 MG/M3 (Dust)  
PEL (OSHA): Same

Comments: \*This chemical is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

CONTINUED...

ALUM

MATERIAL SAFETY DATA SHEET  
ISSUED: 07/16/90

C. PHYSICAL PROPERTIES:

APPEARANCE/ODOR: Solid, no odor, silver colored

SPECIFIC GRAVITY: 2.70

VAPOR DENSITY (AIR=1): N/A

BOILING POINT: 4442

MELTING POINT:

VAPOR-PRESSURE: N/A

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: N/A

PH: N/A

% VOLATILES BY VOLUME: 0

D. HEALTH HAZARD SUMMARY:

PRIMARY ROUTE OF EXPOSURE:

ORAL: Not likely

SKIN: Not likely

EYE: Not likely

INHALATION: Dust or Fume

EFFECTS OF OVEREXPOSURE:

Inhalation of fume may cause metal fume fever with symptoms of fever, chills and chest tightness. Inhalation of dust may irritate the respiratory tract. Mechanical irritation of the skin and eyes may occur. Ingestion may irritate the stomach and intestines.

LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN:

NTP: No

IARC: No

OSHA: No

E. FIRST AID PROCEDURES:

EYE: Flush with water

SKIN: Flush with water

INHALATION: Remove from exposure and call a physician

INGESTION: Call a physician

NOTES TO PHYSICIAN: None

CONTINUED...

ALUM

MATERIAL SAFETY DATA SHEET  
ISSUED: 07/16/90

F. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: N/A

FLAMMABLE LIMITS: N/A

AUTOIGNITION TEMP: N/A

LEL: N/A

UEL: N/A

40-50 mg/m<sup>3</sup> finely divided dust can explode in air when exposed to heat or by chemical reaction.

EXTINGUISHING MEDIA: N/A

SPECIAL FIREFIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

G. REACTIVITY DATA:

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, i.e. Chlorates, Bromates, Peroxides, Nitrates, Nitrites, and Halogens

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

H. SPECIAL PROTECTION INFORMATION:

VENTILATION: Adequate general ventilation is required. Local exhaust ventilation is recommended if dust or fume exceeds applicable exposure limits.

RESPIRATORY PROTECTION: Respirators are not required. If dust/fume exceeds exposure limits, use NIOSH/MSHA approved respirators.

CONTINUED...

ALUM

MATERIAL SAFETY DATA SHEET  
ISSUED: 07/16/90

PROTECTIVE GLOVES: Gloves are not required.

EYE PROTECTION: Eye protection is not required. Safety glasses recommended if dust particles are generated.

OTHER CLOTHING AND/OR EQUIPMENT: Not recommended.

I. ENVIRONMENTAL INFORMATION:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Not an EPA hazardous substance under 40 DFR 116-117

WASTE DISPOSAL METHOD: Material should be recycled.

TSCA STATUS: All components appear on the TSCA Chemical Substance Inventory.

J. SPECIAL PRECAUTIONS

STORAGE AND HANDLING REQUIREMENTS: Do not store with strong oxidizers. Care in handling to avoid mechanical injury.

N.D. = NOT DETERMINED

N/A = NOT APPLICABLE

While information in this fact sheet has been compiled from reference materials and other sources believed to be reliable, its accuracy and completeness is not guaranteed, nor is any responsibility assumed or implied for any loss of damage resulting from inaccuracies or omissions. Any specific evaluation will involve professional judgment by the user's industrial hygiene personnel.

ALUM

# MATERIAL SAFETY DATA SHEET

ISSUED: 07/16/90

SERVICE WIRE COMPANY, INC.

300 Davis Road  
Culloden, WV 25510  
(304) 743-8600

## A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: Copper Rod, Copper Cathode, Copper Wire

SIC CODE: 3357 (Drawing and Insulating Wire)  
3496 (Misc. Fabricated Wire Products)

CHEMICAL NAME: Copper

Service Wire Company, Inc. is a manufacturer of copper electrical wire that is not sold for reprocessing and manufacturing. These electrical wire products, which have an end use function and do not release or otherwise result on exposure to a hazardous chemical under normal conditions of use, are exempt from OSHA Standard titled, "Hazard Communications" (29CF1010.1200).

Rod or Cathode is not produced by Service Wire Company and the information herein has been provided by Producer/Supplier of Rod and Cathode for Service Wire Company.

## LABEL CODES:

HEALTH: 1 - Slight health hazard  
FIRE: 0 - Nonflammable  
REACTIVITY: 0 - Non-reactive

## B. COMPONENTS AND HAZARD INFORMATION:

|              |                  |                  |
|--------------|------------------|------------------|
| COMPONENTS:  | *Copper          | 97-99.99%        |
| CSA #:       | 7440-50-8        |                  |
| TLV (ACGIH): | 1.0 MG/M3 (Dust) | 0.2 MG/M3 (Fume) |
| PEL (OSHA):  | Same             | 0.1 MG/M3        |

Comments: \*This chemical is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

CONTINUED...

COPPER

MATERIAL SAFETY DATA SHEET  
ISSUED: 07/16/90

C. PHYSICAL PROPERTIES:

APPEARANCE/ODOR: Solid, no odor, reddish colored

SPECIFIC GRAVITY: 8.96

VAPOR DENSITY (AIR=1): N/A

BOILING POINT: 2595

MELTING POINT: 1083

VAPOR-PRESSURE: N/A

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: N/A

PH: N/A

% VOLATILES BY VOLUME: 0

D. HEALTH HAZARD SUMMARY:

PRIMARY ROUTE OF EXPOSURE:

ORAL: Not likely

SKIN: Not likely

EYE: Not likely

INHALATION: Dust or Fume

EFFECTS OF OVEREXPOSURE:

Inhalation of fume may cause metal fume fever with symptoms of fever, chills and chest tightness. Inhalation of dust may irritate the respiratory tract. Mechanical irritation of the skin and eyes may occur. Ingestion may irritate the stomach and intestines.

LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN:

NTP: No

IARC: No

OSHA: No

TOXICITY STUDY INFORMATION:

- Only selected registry of toxic effects of chemical substances
- (RTECS) data are presented here; consult latest issue for more information
- Wilson's Disease may be affected by copper exposure
- TDLO: 120 UG/KG, human, oral

- Has been reported to cause reproductive effects in experimental animals

CONTINUED...

COPPER

MATERIAL SAFETY DATA SHEET  
ISSUED: 07/16/90

E. FIRST AID PROCEDURES:

EYE: Flush with water

SKIN: Flush with water

INHALATION: Remove from exposure and call a physician

INGESTION: Call a physician

NOTES TO PHYSICIAN: None

F. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: N/A

FLAMMABLE LIMITS: N/A

AUTOIGNITION TEMP: N/A

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIREFIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

G. REACTIVITY DATA:

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): Contact with hydrogen peroxide may cause a violent reaction. Contact with acetylene may form unstable acetylides.

Burns spontaneously in gaseous chlorine.

HAZARDOUS DECOMPOSITION PRODUCTS: At temperatures well above the melting point, copper oxide fume may be formed.

HAZARDOUS POLYMERIZATION: Will not occur

H. SPECIAL PROTECTION INFORMATION:

CONTINUED...

COPPER

MATERIAL SAFETY DATA SHEET  
ISSUED: 07/16/90

VENTILATION: Adequate general ventilation is required. Local exhaust ventilation is recommended if dust or fume exceeds applicable exposure limits.

RESPIRATORY PROTECTION: Respirators are not required. If dust/fume exceeds exposure limits, use NIOSH/MSHA approved respirators.

PROTECTIVE GLOVES: Gloves are not required.

EYE PROTECTION: Eye protection is not required. Safety glasses recommended if dust particles are generated.

OTHER CLOTHING AND/OR EQUIPMENT: Not recommended.

I. ENVIRONMENTAL INFORMATION:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Not an EPA hazardous substance under 40 DFR 116-117

WASTE DISPOSAL METHOD:

Test according to 40 CFR 261 Subpart C. If hazardous, disposal facility must meet requirements of 40 CFR 264 or 265. If non-hazardous, disposal must satisfy 40 CFR 257. State and local requirements may differ.

TSCA STATUS:

All components appear on the TSCA chemical substance inventory.

J. SPECIAL PRECAUTIONS:

STORAGE AND HANDLING REQUIREMENTS: Do not store near hydrogen peroxide, acetylene or chlorine. No special handling requirements.

N.D. = NOT DETERMINED

N/A = NOT APPLICABLE

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While information in this fact sheet has been compiled from reference materials and other sources believed to be reliable, its accuracy and completeness is not guaranteed, nor is any responsibility assumed or implied for any loss of damage resulting from inaccuracies or omissions. Any specific evaluation will involve professional judgment by the user's industrial hygiene personnel

COPPER

MATERIAL SAFETY DATA SHEET  
ISSUED: 03/20/97

SERVICE WIRE COMPANY, INC.  
300 Davis Road  
Culloden, WV 25510  
(304) 743-8600

A. IDENTIFICATION AND EMERGENCY INFORMATION PRODUCT NAME:

- Electrical (Copper or Aluminum) Wire and Cable
- MC Cable (PVC or Zero Halogen Jacket optional)
- MV-90
- Insulated Rubber (XHHW, RHW, RHH, USE or XLP)
- THW
- RW-90
- Teck 90
- Type TC (PVC or Zero Halogen Jacket)
- Aerial
- Polyline

SIC CODE: 3357 (Drawing and Insulating Wire)  
3496 (Misc. Fabricated Wire Products)

CHEMICAL NAME: These products are not chemicals but are “Articles” as defined by OSHA in the Federal Register 29 section 1910.1200 (c) and therefore section 1910.1200 does not apply as per 1910.1200 (b) (5) (iv) which states this section does not apply to “Articles.”

“1910.1200 (c) Definitions. “Articles” means a manufactured item: (i) which is formed to a specific shape or design during manufacture; (ii) which has an end use function (s) dependent in whole or in part upon its shape or design during use; and (iii) which does not release, or otherwise result in exposure to, a hazardous chemical under normal conditions.”

CAS NUMBER: Products are “Articles” and CAS number is not applicable.

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CABLE970320

## MATERIAL SAFETY DATA SHEET

ISSUED: 03/20/97

### B. COMPONENTS AND HAZARD INFORMATION:

COMPONENTS: (May contain all or part of the following)

- Copper Wire
- Aluminum Wire
- Tinned Copper Wire
- Cuweld Messenger Wire
- Alumweld Messenger Wire
- Galvanized Messenger Wire
- Nylon Fillers
- Crosslinked Polyethylene Insulation
- PVC Jacket or Insulation
- Polyethylene Jacket
- Zero Halogen Jacket
- Mylar Separator Tape
- Stainless Steel Copper Strap
- Aluminum Strap
- Aluminum Alloy Strip
- Galvanized ( Zinc coated) Steel Strip
- Printing Inks

Components above could represent hazards if used in their raw form in other processes. MSDS for each of these can be supplied upon request to our customers and end users.

### EXPOSURE LIMITS FOR ASSEMBLED PRODUCTS:

None Known

### FIRE AND EXPLOSION DATA:

Will not support flame without external constant heat source.

### HAZARDOUS REACTIVITY:

Avoid exposure to flame or extreme heat.

Incomplete combustion may produce dust, fumes, carbon monoxide or other toxic gasses. If exposed to fire wear a self-contained breathing apparatus.

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CABLE970320

**MATERIAL SAFETY DATA SHEET**  
**ISSUED: 03/20/97**

**C. PRIMARY ROUTES OF ENTRY AND EMERGENCY & FIRST AID PROCEDURES:**

**EYE CONTACT:** Not a likely source of exposure with normal use purposes. Cutting, splicing, and termination of wire during insulation could result in small solid particles that could lodge in the eye. Flush or irrigate eye. If irritation develops call a physician. Wear safety glasses.

**SKIN CONTACT:** Not a likely source of exposure with normal use purposes. Not a skin irritant. Wear protective clothing.

**INHALATION:** Not a likely source of exposure with normal use purposes. Not volatile. Wear a mask if dust is generated.

**INGESTION:** Not a likely source of exposure with normal use purposes. Low toxicity. Use proper personal hygiene, wash skin and clothing after handling.

**CHRONIC EFFECTS OF EXPOSURE:** None known.

**D. DISPOSAL PROCEDURES:** Pick up pieces caused by termination, splicing, and cutting to prevent slippage.

Dispose waste or scrap with methods that conform to federal, state, and local regulations.

**E. PROTECTION:** Safety glasses, gloves, and dust mask recommended for good industrial safety practices. No known special protection required.

**STATEMENT:** Our insulated or jacketed products may contain trace amounts of arsenic and lead introduced in raw compounds (also containing only trace amounts). The state of California has found arsenic to cause cancer and lead to cause birth defects or other reproductive harm.

CABLE970320