

PREPARED BY DISTRIBUTOR:



**A. M. Castle & Co.**  
**3400 N. Wolf Road**  
**Franklin Park, IL 60131**

# MATERIAL SAFETY DATA SHEET

(This product contains one or more toxic chemicals subject to the reporting requirements of section 313 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986 and of 40CFR72).

ISSUE DATE

November 25, 1985

REVISED

October 15, 2004

For Information or In An Emergency  
 Call: (847) 455-7111

## Section 1 - Product Identification

Manufacturer's Name

Various

Product Name / Trade Name

Copper - CR & HR  
 Copper Leadtex Sheet

Common Name / Grade

Copper Sheet, Oxygen Free, Hard Drawn  
 Electrolytic Tough Pitch

## Section 2 - Hazardous Ingredients

NOTE: Products Under Normal Conditions Do Not Represent An Inhalation, Ingestion or Contact Health Hazard.

Base Metal, Alloying Elements  
 And Metallic Coatings

CAS#

WT % (1)

OSHA PEL (mg/g<sup>3</sup>) (3)

ACGIH TLV TWA (Unless Noted Otherwise) (mg/m<sup>3</sup>) (2)

Base Metal

Copper (Cu)

7440-50-8

>99.9

1

1 (Dust & Mist)

Trace Less Than .1%

Phosphorus (P)

7723-14-0

<0.1

0.1

0.1 (Yellow)

Antimony (Sb)

<0.1

0.5

0.5

Selenium (Se)

<0.1

0.2

0.2

Bismuth (Bi)

7440-69-9

<0.1

N.E.

N.E.

Coating - Leadtex

Lead (Pb)

7439-92-1

15 lbs/100 sq ft

.05

0.05 (Dust & Fume)

(1) % Of Alloying Material Varies With Grade Of Material.

(2) 1996 ACGIH Threshold Limit Value.

(3) 1993 OSHA Permissible Exposure Limit.

## Section 3 - Physical Data

Material Is (At Normal Conditions)

Solid

Appearance and Odor

Copper Metallic, Odorless

Melting Point (Base Metal)

>1800° F

Specific Gravity

> 8

## Section 4 - Fire And Explosion

Extinguishing Media

NA

Special Firefighting Procedures

Products in the solid state present no fire or explosion hazard.

Unusual Fire and Explosion Hazards

Dust hazard exists under favoring conditions of small particle size.

Dispersion in air and strong ignition source may result in an explosion.

## Section 5 - Reactivity Data

Stability

Stable

Incompatibility (Materials to Avoid)

Mercury, Ammonia, Acetylene, Acids

Conditions to Avoid

Exposure during storage to strong acids, bases or oxidizing agents.

Hazardous Decomposition Products

Toxic gases, aerosols and vapors may be released in a fire involving copper alloys if fumes of other compounds or other contacting materials are involved.

**Section 6 - Health Hazard Data**

NOTE: STEEL PRODUCTS IN THE NATURAL STATE DO NOT PRESENT AN INHALATION, INGESTION OR CONTACT HAZARD. HOWEVER, OPERATIONS SUCH AS BURNING, WELDING, SAWING, BRAZING AND GRINDING MAY RELEASE FUMES AND/OR DUSTS WHICH MAY PRESENT HEALTH HAZARDS IF TLV'S ARE EXCEEDED

**MAJOR EXPOSURE HAZARD**☒ Inhalation☒ Skin Contact☐ Skin Absorption☐ Eye Contact☒ Ingestion**Effects of Overexposure**

Short term exposure to fumes/dust may produce irritation of eyes and respiratory system. Inhalation of high concentrations of freshly formed oxide fumes of copper and lead may cause metal fume fever characterized by a metallic taste in the mouth and irritation of the throat and influenzalike symptoms.

Inhalation or ingestion of lead particles may result in lead-induced systemic toxicity. Symptoms of lead poisoning include abdominal cramps, anemia, muscle weakness and headache. Prolonged exposure can cause behavioral changes, kidney damage, CNS damage and reproductive effects.

Suspected Cancer Agent? ☒ NO: This product's ingredients are not found in the lists below.

\_\_\_\_\_ YES: \_\_\_\_\_ Federal OSHA \_\_\_\_\_ NTP \_\_\_\_\_ IARC

**Emergency and First Aid Procedures**

If exposed to excessive levels of metal fumes, remove to fresh air, seek medical aid immediately.

Eyes - Flush with water for at least 15 minutes.

**Section 7 - Spill or Leak Procedures****Spill or Leak Procedures**

NA

**Waste Disposal Methods**

According to local, state and federal regulations

**Section 8 - Special Protection****Respiratory**

NIOSH/MSHA - Approved dust and fume, respirator should be used to avoid excessive inhalation of particulates when exposure exceeds TLV's.

**Ventilation**

Local exhaust ventilation should be utilized when welding, burning, sawing, brazing, grinding or machining when exposure exceeds TLV's.

**Eye Protection and Protective Clothing**

Safety glasses or goggles should be utilized as required by exposure. Other protective equipment should be utilized as required by the welding standards.

**Section 9 - Special Precautions**

In welding, precautions should be taken for airborne contaminants which may originate from components of the welding rod.

Arc or spark generated when welding or burning could be a source of ignition for combustible and flammable materials.

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness.

The conditions or methods of handling storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Data sheets of individual manufacturers may be obtained by contacting A. M. Castle & Co., 3400 N. Wolf Road, Franklin Park, IL 60131 Attn: Corp. Safety Mgr.