

COPPER CR & HR COPPER LEADTEX SHEET

CUIVRE CR & HR FEUILLE DE CUIVRE LEADTEX

P6338

WARNING!

HAZARDS

HEALTH :

Copper 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 overexposed. Acute effects : Exposure to dust or fume may cause skin and eye irritation, metal fume fever and lead poisoning.

FIRE / REACTIVITY :

Copper products in the solid state present no fire or explosion hazard but fine particles may burn in air. Liquid metal explodes on contact with water. Copper may react with oxidizing agents, acids and bases.

EMERGENCY MEASURES

FIRST AID : (dusts/fumes exposure)

Inhalation : move to fresh air. Eye : flush thoroughly with water and wash carefully under eyelids. Skin : wash with soap and water. Ingestion : not expected source of exposure.

FIRE / REACTIVITY :

Use extinguishing media appropriate to the surrounding material.

PRECAUTIONARY MEASURES

Use local ventilation if overexposed to dust/fume. Wear dust and fume respirator if necessary. Avoid repeated or prolonged skin contact. Avoid contact with oxidizing agents, acids and bases.

<u>Ingredient</u>	<u>Conc.(%)</u>	<u>CAS #</u>
Copper	>99.9	7440-50-8
Phosphorus	<0.1	7723-14-0
Antimony	<0.01	7440-36-0
Selenium	<0.01	7782-49-2
Bismuth	<0.01	7440-69-9
Lead	19-23	7439-92-1

TOXIC MATERIAL

Metal Goods Service Centers
Div. of Alcan Aluminum Corporation
P.O. Box 346
St-Louis, MO
63166

BEFORE USING, READ SAFETY DATA SHEET (SDS)

AVERTISSEMENT!

RISQUES

SANTÉ :

Les produits du cuivre ne présentent pas de danger à l'inhalation, à l'ingestion ou au contact. Cependant, des opérations telles que chauffage, soudage, sciage, brasage et meulage peuvent dégager des fumées et/ou poussières présentant un risque à la santé en cas de surexposition. Effets aigus : L'exposition aux poussières ou fumées peut causer l'irritation de la peau et des yeux, la fièvre du fondeur et l'empoisonnement au plomb.

FEU / RÉACTIVITÉ :

Sous forme solide, ne présente pas de risque de feu ou d'explosion, cependant les particules fines peuvent brûler au contact de l'air. Le métal liquide peut exploser au contact de l'eau. Le cuivre peut réagir avec les agents oxydants, les acides et les bases.

MESURES D'URGENCE

PREMIERS SOINS : (exposition fumées/poussières)

Inhalation : aller dans un endroit aéré. Yeux : rincer abondamment avec de l'eau et bien rincer sous les paupières. Peau : laver à l'eau et au savon. Ingestion : source d'exposition peu probable.

FEU / RÉACTIVITÉ :

Utiliser un agent extincteur approprié pour les matières environnantes.

PRÉCAUTIONS

Utiliser une ventilation locale en cas de surexposition aux poussières/fumées. Porter un respirateur anti-particule et fumée si nécessaire. Éviter le contact répété ou prolongé avec la peau. Éviter le contact avec les agents oxydants, les acides et les bases.

WHMIS/SIMDUT



<u>Ingrédient</u>	<u>Conc.(%)</u>	<u># CAS</u>
Cuivre	>99.9	7440-50-8
Phosphore	<0.1	7723-14-0
Antimoine	<0.01	7440-36-0
Sélénium	<0.01	7782-49-2
Bismuth	<0.01	7440-69-9
Plomb	19-23	7439-92-1

MATIÈRE TOXIQUE

Centres de Service de Produits de Métaux
Div. de Alcan Aluminium Corporation
C.P. 346
St-Louis, MO
63166

LIRE LA FICHE SIGNALÉTIQUE AVANT D'UTILISER CE PRODUIT

1. PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME :** Copper - CR & HR, copper Leadtex sheet**PRODUCT NUMBER :** P6338**SUPPLIER :** 0804001

Metal Goods Service Centers
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P.O. Box 346
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SYNONYMS : Copper sheet, oxygen free, hard drawn, electrolytic tough pitch**APPEARANCE AND ODOUR :** Copper metallic solid odorless**USES :** Primary metal**2. COMPOSITION / INFORMATION ON INGREDIENTS**

NAME	CAS #	LD ₅₀	LC ₅₀	EC DIRECTIVE		CONC.
				Symbol	R phrases	
			Base metal :			
Copper	7440-50-8	Unknown	Unknown	None	None	> 99.9 %
			Trace elements :			
Phosphorus	7723-14-0	Unknown	Unknown	None	None	< 0.1 %
Antimony	7440-36-0	100 mg/kg (oral-rat)	Unknown	Xn	20/22	< 0.01 %
Selenium	7782-49-2	Unknown	Unknown	T	23/25, 33	< 0.01 %
Bismuth	7440-69-9	5 g/kg (oral-rat)	Unknown	None	None	< 0.01 %
			Coating - Leadtex :			
Lead	7439-92-1	Unknown	Unknown	Not classified		19-23 %

3. HAZARDS IDENTIFICATION

Dusts present a lead contamination hazard.

4. FIRST AID MEASURES

In case of dust exposure:

Inhalation : In case of discomfort, remove to a ventilated area. Consult a physician.

Skin contact : Wash skin thoroughly with soap and water.

Eye contact : Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists, continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort continues, consult a physician.

Ingestion : Not applicable.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA : The product in the solid state presents no fire or explosion hazard.

HAZARDOUS COMBUSTION PRODUCTS : Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Not applicable.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS : Not applicable.

STORAGE CONDITIONS : Not applicable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Provide general and local ventilation to maintain concentrations of air contaminants below recommended standards. Use an approved respirator designed for the hazard, where concentrations exceed exposure limits. Wear goggles, as necessary.

EXPOSURE LIMITS :

(ACGIH=American Conference of Governmental Industrial Hygienists; TLV=Threshold Limit Value; OSHA=Occupational Safety and Health Administration [USA]; PEL=Permissible Exposure Limit; TWA=Time-Weighted Average; STEL=Short Term Exposure Limit; Ceiling=Ceiling value)

	ACGIH (TLV)		OSHA (PEL)	
	TWA	STEL	TWA	Ceiling
Copper (fume)	0.2 mg/m ³	None	0.1 mg/m ³	None
(dust)	1.0 mg/m ³	None	1.0 mg/m ³	None
Lead inorg. dust & fumes	0.15 mg/m ³	None	0.05 mg/m ³	None

9. PHYSICAL AND CHEMICAL PROPERTIES

pH : Not applicable.	flashpoint : Not applicable.
boiling point : Not applicable.	autoignition temp. : Not applicable.
melting point : > 1800°C	lower flammable limit : Not applicable.
vapour pressure : Not applicable.	higher flammable limit : Not applicable.
vapour density (air=1) : Not applicable.	explosive properties : Not applicable.
evaporation rate : Not applicable.	NFPA fire code : 0
relative density (water=1) : > 8	oxidizing properties : Not applicable.
water solubility : Not applicable.	odour threshold : Not applicable.
partition coefficient (n-octanol/water) : Not applicable.	

10. STABILITY AND REACTIVITY

STABLE (yes/no) : Yes

CONDITIONS AND MATERIAL TO AVOID : Mercury, ammoniac, acetylene. Acids, bases, oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS : Metallic dust or fumes may be produced during welding, burning, grinding and machining.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE : inhalation : Yes ingestion : No
 eye contact : No skin contact : No skin absorption : No

ACUTE EFFECTS :

Inhalation : Irritation of the respiratory tract. High concentrations of freshly-formed copper oxide and fumes can produce symptoms of metal fume fever. The principal symptoms are muscular aches, fever, chills, nausea, vomiting and weakness.

Skin contact : Not applicable.

Eye contact : Irritation.

Ingestion : Not applicable.

CHRONIC EFFECTS :

In case of dust exposure:

This product may contain lead. Following effects may occur:

Lead compounds bioaccumulate. The most frequent chronic effects are anemia, kidneys and central nervous damages. Medical surveillance should be undertaken to prevent high blood lead levels. Inhalation of lead oxide fumes can cause abdominal pains, constipation, headaches, weakness, muscle pain, loss of appetite, nausea and vomiting.

Medical conditions aggravated by exposure to the product : Not determined.

Carcinogenicity / Mutagenicity / Reproductive toxicity : The International Agency for Research on Cancer (IARC) classifies lead compounds in group 2B: possibly carcinogenic in humans (no evidence in humans but sufficient evidence in animals). Does not contain any other carcinogen or potential carcinogen (IARC, NTP, OSHA). (IARC=International Agency for Research on Cancer; NTP=National Toxicology Program [USA]; OSHA=Occupational Safety and Health Administration [USA])

12. ECOLOGICAL INFORMATION

No information available

13. DISPOSAL CONSIDERATIONS

Recycle if possible. Dispose of waste in accordance with federal, state, or local regulations.

14. TRANSPORT INFORMATION

This product is not classified as dangerous under the Transport Regulations, for road, rail, sea or air transport (no UN number).

15. REGULATORY INFORMATION**WHMIS CLASSIFICATION (Canada) :**

Copper CR & HR : non controlled product

Leadtex sheet : D2 toxic product

EEC CLASSIFICATION (Europe) : Not classified

Warning symbol : None

Warning word : None

Risk phrases : None

Safety phrases : None

USA REGULATIONS:**Section 313 Supplier Notification**

This product may contain the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (Title III of SARA) and of 40 CFR 372. (This information must be included in all MSDSs that are copied and distributed for this material).

Chemical Name**CAS #**

Copper

7440-50-8

Lead

7439-92-1

This product contains lead. Any process resulting exposure to more than 0.5 mg/m³ of metal dust may result in a daily dose of lead of over 0.5 µg/day, the dose above which the "California Safe Drinking Water and Toxic Enforcement Act" of 1986 requires notification. Refer to the appropriate regulation notification wording guidelines. .

16. OTHER INFORMATION**Abbreviations :**

CAS # = Chemical Abstracts Service Registry Number; EC = European Community

LD₅₀ = Lethal dose 50%; LC₅₀ = Lethal concentration 50%; LCL₀ = lowest published lethal concentration

* Although the information in this MSDS was obtained from sources which we believe to be reliable, it cannot be guaranteed. In addition, this information may be used in a manner beyond our knowledge or control. The information is therefore provided for advice purposes only, without any representation or warranty express or implied. *

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Reason for modification : Standardization according to ISO 11014 and European Directive 91/155/EEC.