

# LTS Research Laboratories, Inc.

Safety Data Sheet Copper Chromium

# 1. Product and Company Identification

Trade Name: Copper chromium

Chemical Formula: Cu-Cr

Recommended Use: Scientific research and development

Manufacturer/Supplier: Stanford Advanced Materials

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A. 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: (949) 407-8904

(This telephone number is available 24 hours per day, 7

days per week.)

#### 2. Hazards Identification

Signal Word: Warning







Hazard Statements: H228: Flammable solid

H319 Causes serious eye irritation H335: May cause respiratory irritation H351: Suspected of causing cancer

Precautionary Statements: P202: Do not handle until all safety precautions have been read and

understood

P261 Avoid breathing dust/fume/vapor

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do -

continue rinsing

P210: Keep away from heat/sparks/open flames/hot surfaces - No

smoking

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P308+P313: IF exposed or concerned: Get medical advice/attention

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

Bulk

HMIS Health Ratings (0-4): Powder

 Health:
 1
 0

 Flammability:
 2
 0

 Physical:
 1
 0

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				3	3. Compos	sition					
Chemical Additiona	Family: al Names:			Alloy Chrom	nium copp	er		'		: '	
Copper (				0.100	.07						
,	Percentage: CAS #: EC #:		:	0-100 7440-5 231-15	50-8	:'	: ' '		:'	:"	
	m (Cr): Percentage: CAS #:	:	`:	0-100 7440-4		1:	1	;	1	1:	:
]	EC #:			231-15	57-5			, ,			
	· · · · · · · · · · · · · · · · · · ·		'	4. Fi	rst Aid Pr	ocedures	'	· · ·	· · · · · · · · · · · · · · · · · · ·		
General 7	Treatment:			Seek n	nedical att	ention if s	ymptoms p	ersist.			
Special T	reatment: t Symptoms:		:	None None	,	:'	7 P P		:	: "	
Inhalation Ingestion Skin:	tion: Seek medical attention									:	
Eyes:	: '		٠٠,	contaminated clothing.  Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing							
;'			:	5. Fir	efighting	Measures	: ' '			:	
Flammab	ility:			Flamn	nable as po	owder only	7				
	hing Media: e Fighting Pr		`:	Use fu	ll-face, se	lf-containe	ed breathing	g apparatı	s with full		
			,		ng to preve position p		with skin a	and eyes.	See section	10 for	
				6. Accide	ental Relea	ase Measu	res				
If Material Is Released/Spilled:				Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate							:
		:	`;	absolu Take c	te (HEPA are not to	) air filter raise dust	and place in	n a closed	container f	or disposal.	:
Environm	nental Precau	itions:		Isolate	runoff to	prevent ei	nvironment				
	1			7. Ha	ndling and	d Storage	,			,	. '
	Conditions:					y after han					
	Conditions: gienic Maint	tenance:	: '	materi	als and co	nditions li	sted in sect	ion 10.	tainer. Store thoroughly	e apart from before	
Work/Hy Ventilation	1	indirec.	·:	eating compr	and smok essed air.	ing. Do no	ot blow dust	t off cloth	ing or skin	with	:
· January ·					old limit.	- Chanada	and the manner	- Conce		J_ 0010 W	

### 8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.1 mg/m³ as Cu, Fume, long-term value Threshold Limit Value: 0.2 mg/m³ as Cu, Fume, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

### 9. Physical and Chemical Characteristics

Color N/A

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless
Water Solubility: Insoluble
Boiling Point: N/A

Melting Point: 1083-1907 °C

Flash Point: N/A
Autoignition Temperature: N/A
Density: N/A
Molecular weight: N/A

#### 10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume, Copper oxides

### 11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage

Skin: May cause irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A

Aggravated Medical Conditions: N/A

Median Lethal Dose: >5000 mg/kg for mouse by mouth

Carcinogen: Suspected of causing cancer

ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans

and/or animals.

(Inhalation) EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure

and cancer

(Inhalation)EPA-K: Known human carcinogens

IARC-3: Not classifiable as to carcinogenicity to humans

(Oral)EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.

(Oral)EPA-CBD: Carcinogenic potential cannot be determined.

12. Ecological Information

Aquatic Toxicity:

Mild No No

Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:

Notes:

toxic for aquatic organism

May cause long lasting harmful effect on aquatic life.

Do not allow material to be released to the environment without proper

governmental permits.

Also poisonous for fish and plankton in water bodies.

Do not allow undiluted product or large quantities to reach ground

water, water course or sewage system. Avoid transfer into the environment.

# 13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardo



Hazard Class:

4.1 Flammable solids, self-reactive substances and solid desensitized to

explosives.

Packing Group: UN Number:

III UN3089

Proper Shipping Name:

Metal powders, flammable, n.o.s. (Copper Chromium)

15. Regulatory Information

Sec 302 Extremely Hazardous:

No

Sec 304 Reportable Quantities:

N/A

Sec 313 Toxic Chemicals:

Yes

#### 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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