MATERIAL SAFETY DATA SHEET

& Boreal C BORGAI 777 Enst Park Druc Laboratories Tonamenda NY 14150 6781

Boreal Laboratories Ltd.

MSDS No. CC 420 Effective Date uly 1, 1986

SECTION	I NAME	24 HQ	OUR EN	TERGENCY	ASSIS	TANC	
roduct	COPPER, METAL			HEMTREC 0-424-9300	Heal	th O	
hemical ynonyms	Copper: shot, granules, powder, sheet, foil, turnings.	Day 716-226-6177			Fi	Fire 0	
ormula	Cu '	NEP	NEPA Night 716-334-4222 Reactiv			ty 0	
nit(s) Size	t(s) Size 30 grams to 2.5 Kg.		HAZARD RATING			HIGH EXTREME	
A.S. No.	7440-50-8	0	1	2	3	4	
SECTION	II HAZARDOUS INGRED	IENTS O	F MIX	CTURES			

Principal Hazardous Component(s)	%	TLV Units
Copper Metal: shot, granules, powder, sheet,	100%	Fume 0.2 mg/m ³
foil, turnings.		Dust and mist, as
		Copper 1 mg/m³.
CAUTION! DO NOT BREATHE METAL DUST.		

SECTION III PI	HYSICAL DATA	
Melting Point (°F)	1083°C	Specific Gravity (H,0 = 1)8.92 at 20°C
Boiling Point (°F)	2324°C	Percent Volatile by Volume (%) Non-volatile (NA)
Vapor Pressure (mm Hg)	1 mm @ 1628°C	Evaporation Rate = 1)Non-volatile (NA)
Vapor Density (Air = 1)	Data not listed	

Vapor	Density	(Air = 1)	Data	not	listed

Solubility in Water Insoluble

Appearance and Odor Reddish, lustrous metal in the form of shot, granules, powder, sheet, foil, turnings

SECTION	IV FIRE AND E	XPLOSION HAZARD	DATA	
Flash Point		Flammable Limits in Air	Lower	Upper
(Method Used)	Non-combustible (NA)	% by VolumeNA		

Extinguisher Media

Dry sand, earth, dolomite, and sodium chloride.

SPECIAL FIREFIGHTING PROCEDURES

Use no water in fighting fires. In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products. Dangerous in dispersed form when exposed to flame or sparks or by chemical reaction with oxidizers.

D.O.T. NON-REGULATED

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V **HEALTH HAZARD DATA**

Threshold Limited Value TWA: 1.0 mg/m³ for 8 hour working day. Copper (fume) T.L.V. 0.2 mg/m³.

Effects of Overexposure INHALATION: Of high concentrations of the dust can cause intense sneezing, nausea, weakness and fever. SKIN: May cause skin irritation.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If illness or discomfort develops, get medical attention.

SKIN: Flush with water. If irritation develops, get medical attention.

Stability	Unstable		Conditions to Avoid		
Stability	Stable	x	High acidity.		
Incompa (Material	tibility s to avoid)		ids, bromates, chlorates, iodates and halogens.		
Hazardo Decompo	us osition Pro	oducts	Nitrogen oxide if reacted with nitric acid.		
Hazardous	Polymeriza	ation	Conditions to Avoid		
May Occur	Will N	lot Occur			
	X				

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case Sweep up and place in a suitable container. If copper powder material is released or spilled is involved, avoid making dust clouds by sprinkling moderately with damp sand.

Waste Disposal Method Dispose of in an approved chemical landfill or contract a licensed chemical waste disposal service.

SECTION VIII				ORMATION	
Respiration Protection No.	ne should be r		ratory handlin	If dusty conditions provail	
Ventilation Local Exh.	aust	Yes-for dust	Specia		
Mechanic	al (General)	Yes-fume or dust	Other	r No	
Protective Gloves Light plastic			Eye Protection Chemical safety glasses.		
Other Protective Smock, ag	oron, proper g	loves, eye wash stati			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken Store in a cool, dry place avoiding contact with fumes or hot in Handling and Storing surfaces. Wash thoroughly after handling.

Keep container tightly closed when not in use.

Other Precautions

Read label on container before using.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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Approved Alexander Piccirilli

Chemical SafetyAP Coordinator

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