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MATERIAL SAFETY DATA SHEET: COPPER FOIL

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Copper, shots, turnings, foil, granules, wire.
Catalog Numbers: 20769-0000, 20769-1000, 20769-5000, 31791-0000, 31791-2500
Synonyms:
Company Identification: MTI Corporation
860 South 19th Street
Richmond, CA 94804 USA
For information, call: 510-525-3070
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name:	%	EINECS#
7440-50-8	Copper	>99%	231-159-6

Hazard Symbols: None listed

Risk Phrases: None listed

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW *Not available*

Potential Health Effects

Eye: May cause eye irritation.
Skin: May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

SECTION 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid. Wash mouth out with water.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:	Individuals with Wilson's disease are more susceptible to chronic copper poisoning. Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide or chemical foam.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment.

SECTION 7 - HANDLING AND STORAGE

Handling:	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.
Storage:	Store in a cool, dry place. Store in a tightly closed container.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 7440-50-8:

United Kingdom, WEL - TWA: 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist) United Kingdom, WEL - STEL: 0.6 mg/m³ STEL (fume); 2 mg/m³ STEL (dust and mist)
United States OSHA: 0.1 mg/m³ TWA (fume); 1 mg/m³ TWA (dusts and mists) Belgium - TWA: 0.2 mg/m³ VLE (fume); 1 mg/m³ VLE (dust and mist)
France - VME: 0.2 mg/m³ VME (fume); 1 mg/m³ VME (dust, as Cu) France - VLE: 2 mg/m³ VLE (dust, as Cu)
Germany: 1 mg/m³ TWA (inhalable fraction); 0.1 mg/m³ TWA (respirable fraction, smoke)
Malaysia: 0.2 mg/m³ TWA (fume, as Cu); 1 mg/m³ TWA (dust and mist, as Cu) Netherlands: 0.2 mg/m³ MAC (smoke); 1 mg/m³ MAC (dust)
Russia: 0.5 mg/m³ TWA (aerosol)
Spain: 0.2 mg/m³ VLA-ED (fume); 1 mg/m³ VLA-ED (dust and mist, as Cu)

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Granules
Color:	brown
Odor:	Not available
pH:	Not available
Vapor Pressure:	1.3mbar @1628 deg C
Viscosity:	Not available
Boiling Point:	2595 deg C @760mmHg (4,703.00°F)
Freezing/Melting Point:	1083 deg C (1,981.40°F)
Autoignition Temperature:	Not available
Flash Point:	Not available
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Decomposition Temperature:	Not available
Solubility in water:	Insoluble
Specific Gravity/Density:	8.920
Molecular Formula:	Cu
Molecular Weight:	63.54

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures. Air sensitive.
Conditions to Avoid:	Incompatible materials, exposure to air.
Incompatibilities with Other Materials	Strong oxidizing agents, strong acids, acid chlorides, ammonium nitrate, halogens, azides.
Hazardous Decomposition Products	Not available
Hazardous Polymerization	Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:	CAS# 7440-50-8: GL5325000 GL7440000 GL7590000
LD50/LC50:	RTECS: Not available.

Carcinogenicity: Copper - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated.	Not regulated.	Not regulated.
Hazard Class:			
UN Number:			
Packing Group:			

USA RQ: CAS# 7440-50-8: 5000 lb final RQ (no reporting of releases of this hazardous substance)

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7440-50-8: 0

Canada

CAS# 7440-50-8 is listed on Canada's DSL List

US Federal

TSCA

CAS# 7440-50-8 is listed on the TSCA Inventory.

SECTION 16 - OTHER INFORMATION

MSDS Creation Date:	7/16/1996
Revision #1 Date	6/05/2007
Revisions were made in Sections:	1, 2, 3, 4, 6, 7, 8, 9, 10, 14

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