

MATERIAL SAFETY DATA SHEET
 Copper, shots, turnings, foil, granules, wire.

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: Acros Organics BVBA
 Janssen Pharmaceuticaaan 3a
 2440 Geel, Belgium
Company Identification: (USA) Acros Organics
 One Reagent Lane
 Fair Lawn, NJ 07410
For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
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.
Chronic:

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 substa

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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