



MATERIAL SAFETY DATA SHEET
CDA 220 - Commercial Bronze

SECTION I

Manufacturer's Name
 FCI, USA INC.
 BURNDY ELECTRICAL

Emergency & Information Telephone Number
 603/647-5000

Address
 47 EAST INDUSTRIAL PARK DRIVE
 P.O. BOX 9507
 MANCHESTER, NEW HAMPSHIRE
 03108-9507

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Supersedes: January 16, 2002
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Signature of Preparer (optional)

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (specific chemical identity; common name(s), CAS #)

	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits Recommended</u> (NIOSH)	<u>Percent Optional</u>
Copper 7440-50-8 (fume, dust)	0.1, 1.0 mg/m ³	0.2, 1.0 mg/m ³	1.0 mg/m ³	90
Zinc Oxide 7440-66-6 (fume, dust)	5.0, 15 mg/m ³	5.0, 10 mg/m ³	5.0 mg/m ³	

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

<u>Boiling Point</u>	1400EC	<u>Specific Gravity (H₂O = 1)</u>	8.80
<u>Vapor Pressure (mm Hg)</u>	N/A	<u>Melting Point</u>	1020EC
<u>Vapor Density (AIR = 1)</u>	N/A	<u>Evaporation Rate (Butyl Acetate = 1)</u>	N/A
<u>Solubility in Water</u>	Insoluble; soluble in acids	<u>Appearance and Odor</u>	N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

<u>Flash Point (Method Used)</u>	N/A	<u>Flammable Limits</u>	N/A
<u>LEL</u>	N/A	<u>UEL</u>	N/A
<u>Extinguishing Media</u>	N/A	<u>Special Fire Fighting Procedures</u>	N/A
<u>Unusual Fire and Explosion Hazards</u> - Finely divided dust is flammable. Vapor explosion may result from contact of liquid with molten metal.			

SECTION V - REACTIVITY DATA

<u>Stability</u>	Stable	<u>Conditions to Avoid</u>	None
<u>Hazardous Polymerization</u>	Will not occur	<u>Incompatibility (Materials to Avoid)</u>	Acids, Acetylene
<u>Conditions to Avoid</u>	None	<u>Hazardous Decomposition or Byproducts</u>	Cu ₂ O, ZnO



SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry - Principle routes of entry through inhalation of dust fume or mists.

Inhalation - Yes Skin - No Ingestion - Yes

Health Hazards (Acute and Chronic): **Copper:** Eyes, nose, throat, skin irritation: flu-like symptoms; liver (rate)

Zinc: Same as for Copper excluding liver effects

Carcinogenicity Unknown NTP N/A

IARC Monographs N/A OSHA Regulated N/A

Signs and Symptoms of Exposure - Irritation of eyes, throat and/or nose. Flu-like symptoms; metal fume fever from zinc oxide.

Medical Conditions Aggravated by Exposure - Chronic respiratory disease, skin disease, and Wilson's disease

Emergency and First Aid Procedure:

EYES - Flush with water for 15 minutes; Call Doctor. **SKIN** - Wash off with soap and water

INHALATION - Remove to fresh air; Call Doctor

INGESTION - Give large amounts of water and induce vomiting if conscious; call Doctor immediately

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: - Evacuate unprotected personnel from the spill/release area. Ventilate the area of release. Absorb liquid (with contaminant) by use of vermiculite, dry sand, earth or similar material.

Waste Disposal Method - Reclaim, if possible, seal waste in container. Dispose in accordance with Federal, State and Local regulations.

Precautions to be taken in handling and storing - Do not wear contact lenses while wearing a respirator or when dusts, mists or fumes get into eyes.

Other precautions - None

SECTION VIII - Control Measures

Respiratory Protection (Specify Type) - High efficiency particulate filter respirator with full face piece

Ventilation None Local Exhaust None

Special None Mechanical (General) None

Other None

Protective Gloves - Chemical resistant leather gloves for welding and grinding.

Eye Protection - Use full-face shield.

Other Protective Clothing or Equipment - Face shield or welding helmet (for grinding and welding).

Work Hygienic Practices - None

SARA NOTICE

FCI is required to notify you that you have purchased product which contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR, Part 372. FCI is providing the name of each toxic chemical, the associated Chemical Abstract Service (CAS) registry number and percent by weight of each toxic chemical in the product. This notification must not be detached from the MSDS and any copying or re-distribution of the MSDS shall include a copy of this notice.

Product: CDA 220 (Commercial Bronze)

SARA Toxic Chemical:	Copper (fume, dust)	Zinc Oxide (dust or fume)	Zinc
CAS No:	7440-50-8	1314-13-2	7440-66-6
Percentage by Weight:	90	N/A	N/A