



MATERIAL SAFETY DATA SHEET

COPPER & BRASS SALES -- C194(CDA19400) STRIP

MATERIAL SAFETY DATA SHEET

Part Number/Trade Name: C194(CDA19400) STRIP

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General Information

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Item Name: C194(CDA19400) STRIP

Company's Name: [POONGSAN CORPORATION](#)

Company's Street: 611 DAEJUNG-RI ONSAN-UP ULJU-KUN

Company's City: ULSAN

Company's Country: SOUTH KOREA

Company's Zip Code: 689-890

Company's Emerg Ph #: 81-52-231-9165

Company's Info Ph #: 81-52-231-9400

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Ingredients/Identity Information

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Proprietary: NO

Ingredient: COPPER (DUST & MIST)

Ingredient Sequence Number: 01

Percent: 97.05-97.84

NIOSH (RTECS) Number: GL5325000

CAS Number: 7440-50-8

OSHA PEL: 0.1 MG(CU)/M3 (FUME)

ACGIH TLV: 0.2 MG/M3 (FUME)

Other Recommended Limit: 1 MG(CU)/M3 (DUST)

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Proprietary: NO  
Ingredient: Ferrous  
Ingredient Sequence Number: 02  
Percent: 2.1-2.6  
NIOSH (RTECS) Number: NO4565500  
CAS Number: 7439-89-6  
OSHA PEL: 10 MG/M3 (FUME)  
ACGIH TLV: 5 MG/ M3 (FUME)

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Proprietary: NO  
Ingredient: PHOSPHORUS (YELLOW % WHITE)  
Ingredient Sequence Number: 03  
Percent: 0.015-0.15  
NIOSH (RTECS) Number: TH3500000  
CAS Number: 7723-14-0

OSHA PEL: 0.1 MG/CUM  
ACGIH TLV: 0.1 MG/CUM

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Proprietary: NO  
Ingredient: ZINC OXIDE \*96-2\*  
Ingredient Sequence Number: 04  
Percent: 0.05-0.20  
NIOSH (RTECS) Number: ZH4810000  
CAS Number: 1314-13-2  
OSHA PEL: 5 MG/CUM  
ACGIH TLV: 5 MG/CUM

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Physical/Chemical Characteristics

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Appearance And Odor: SILVER / YELLOW TO RED COLOR SOLID W/NO ODOR.

Melting Point: 1620-2260F

Specific Gravity: 8.91

Solubility In Water: INSOLUBLE

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#### Fire and Explosion Hazard Data

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Extinguishing Media: USE SPECIAL MIXTURES OF DRY CHEMICAL/SAND.

Special Fire Fighting Proc: WEAR NIOSH/MSHA SCBA & PROTECTIVE CLOTHING.

Unusual Fire And Expl Hazrds: SOLID MASSIVE FORM ISN'T COMBUSTIBLE. MOLTEN METAL MAY REACT VIOLENTLY W/WATER.

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#### Reactivity Data

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Stability: YES

Cond To Avoid (Stability): WATER, HEAT, FLAMES, CHEMICAL REACTIONS.

Materials To Avoid: OXIDIZERS, ACIDS, BASES

Hazardous Decomp Products: METAL FUME.

Hazardous Poly Occur: NO

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#### Health Hazard Data

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Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: COPPER-INHALATION: FUMES MAY CAUSE METAL FUME FEVER. SKIN: DERMATITIS, KERATINIZATION OF THE HANDS & THE SOLES OF

THE FEET. COPPER DUST & FUME CAUSES IRRITATION OF THE UPPER RESPIRATORY TRACT.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NONE

Signs/Symptoms Of Overexp: COPPER-FLU-LIKE SYMPTOMS, SKIN & HAIR DISCOLORATION, METALLIC TASTE IN THE MOUTH, NAUSEA.

Emergency/First Aid Proc: EYES: FLUSH W/RUNNING WATER. SKIN: VACUUM OFF EXCESS DUST. WASH W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: LARGE: REMOVE BY VACUUMING/WET SWEEPING TO PREVENT HEAVY CONCENTRATION OF AIRBORNE DUST. IF LIQUIDS CONTAINING SOLUBILIZED METAL ARE SPILLED EVACUATE AREA. ABSORB BY MEANS OF VERMICULITE, DRY SAND/SIMILAR MATERIAL. (SEE SUPP)

Waste Disposal Method: DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

Precautions-Handling/Storing: STORE AWAY FROM INCOMPATIBLE MATERIALS & KEEP DUST FROM IGNITION SOURCES.

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Control Measures

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Respiratory Protection: IF EXPOSURE ABOVE THE PEL/TLV, WEAR NIOSH/MSHA APPROVED RESPIRATOR.

Ventilation: LOCAL EXHAUST VENTILATION.

Protective Gloves: REQUIRED

Eye Protection: SAFETY GLASSES W/SIDE SHIELDS

Other Protective Equipment: FACE SHIELDS, SPECIALLY TINTED GLASS.

Suppl. Safety & Health Data: SPILLS CONT'D: CLEANUP PERSONNEL SHOULD WEAR

RESPIRATORS & PROTECTIVE CLOTHING. VENTILATE AREA.

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Transportation Data

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Disposal Data

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Person in charge : S.Y.KANG

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