

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

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Disposal Data

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Person in charge : S.Y.KANG

Tel : 82-52-239-9383

Fax : 82-52-239-9400

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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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

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