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IC 35629

MATERIAL SAFETY DATA SHEET

Product Name: Copper and Copper base alloys in rods, bars, strips, coils, wire, tube, Ingots, cake, cathode, and scrap

Chemical Family: Copper & Copper Alloys

Use of Product: article fabrication

Product includes the following CDA Alloys:

101	230	330	360	413	505	642	715	757
102	240	332	365	422	508	651	725	762
110	260	335	371	425	509	655	735	770
122	268	340	377	430	510	670	740	782
145	270	342	380	434	511	675	741	792
182	272	345	385	462	519	690	743	
210	280	350	405	464	521	694	745	
220	314	353	410	482	524	706	752	
226	316	356	411	485	544	710	754	

PHYSICAL DATA

Melting Point: 1500-2100°F
Boiling Point: N.A.
Specific Gravity: 7.8-9.0 g/cc
Vapor Pressure: N.A.

The product is a silver or yellow to red solid at room temperature and exhibits no odor. The product is insoluble in water.

CHEMICAL COMPOSITION

Alloys may contain any or all of the chemical constituents listed below:

	CAS No.	Range (%)	8 Hr. TWA
Copper	7440-50-8	45 - 100	1 mg/M³ dust 0.1 mg/M³ fume
Zinc	7440-66-6	0 - 43	5 mg/M³ oxide
Aluminum	7429-90-5	0 - 15	10 mg/M³
Iron	7439-89-6	0 - 6	10 mg/M³
Lead	7439-92-1	0 - 5.5	0.05mg/M³
Manganese	7439-96-5	0 - 5	1 mg/M³
Nickel	7440-02-0	0 - 33.0	1 mg/M³
Phosphorus	7723-14-0	0 - 0.5	0.1 mg/M³
Silicon	7440-21-3	0 - 4.5	10 mg/M³
Tin	7440-31-5	0 - 11.0	10 mg/M³
Tellurium & Compounds	13494-80-9	0 - 0.5	0.1 mg/M³

STOREAGE, FIRE & REACTIVITY

Flash Point: N.A. Auto-ignition Temp: N.A.

Flammability Limits: N.A.

There are no fire or explosion hazards with these alloys. Never use water as an extinguishing agent around molten metal. Water will react violently with any molten metal.

The alloy is stable, non-hazardous solid at room temperatures. Material may react with acids, bases or oxidizers.

Material does nor present a significant health hazard under normal handling and storeage conditions.

HEALTH HAZARD DATA

Under normal handling conditions the solid alloy presents no significant health hazards. Processing of the alloy by dust or fume producing operation (grinding, buffing, forgings, etc.) may result in the potential for exposure to airborn metal particulates or fume. The exposure levels in Section II are relevant to fumes and dusts.

Chronic exposure to copper, zinc, lead and manganese may cause metal fume fever. Symptoms of metal fume fever include fever, fatigue, dryness of throat, head and body ache, fever and chill. Overexposure to copper and lead may result in skin and hair discoloration. Chronic exposure may affect the central neverous system leading to emotional disturbances, gait and balance difficulties and paralysis.

Nickel and lead have been identified as potential cancer causing agents.

The product will not irritate the skin or eyes in bulk form. Particulates may cause dermatitis due to mechanical irritation.

First Aid:

Ingestion: Ingestion of significant amounts of coppers alloy are unlikely. Seek medical help if large quantities of product are ingested.

Inhalation: Remove from exposure to dust or fume if present. Seek medical help if required.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush with water for at least 15 minutes. Seek medical help if required.

SPILL PROCEDURES

Product is a non-hazardous solid. No special precautions are required for spills of bulk material. Scrap metal can be reclaimed for reuse. Follow Federal, State and local regulations regarding disposal.

SPECIAL PROTECTION INFORMATION

Typically no special protection is required during use of the product beyond that required for the process operation being employed. Where dust or fume levels are greater than those specified in Section II, NIOSH approved respiratory protection should be used.

SPECIAL PRECAUTIONS AND COMMENTS

Wet material should never be charged into a molten bath.

Eye protection should be used when cutting, grinding, machining or buffing product. Eye protection should also be used with any other process that generates dust, fumes or chips.

Wash hands thoroughly after use, especially before eating.

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