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Alloys
 Attachments
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MATERIAL SAFETY DATA SHEET

Product: 585 Solder
 Description: Dental Solder
 Chem Fam: Alloy cmpsd of Au
 Cu

SECTION II - HAZARDOUS INGREDIENTS

Pigments	N/A	Vehicle	N/A	Additvs	N/A
Catalyst	N/A	Solvents	N/A	Others	N/A
Hazardous Mixtures of other liquids, solids or gases		N/A			

LIMIT VALUES (all concentrations mm/M³)

ELEMENT	FORM	PEL	CEILING	PEAK	TLV	TLV-STEL	PERCENT
Cu	Copper fume	0.1			0.2		17.70%
Ag	Silver Metal	0.1			0.1		16.90%
Zn	Zinc Oxide fume	5.0	15.0		5.0	10.0	4.00%
Cu	Copper dst/mst	1.0			1.0	(2)	2.90%
Sn	Tin(inorg.cmpnd)	2.0			2.0	(4)	

SECTION III - PHYSICAL DATA

ELEMENT	(C) Boiling Pnt	V. Pssr	V. Dnsty	Sp. Gr.
Cu	2600	0		8.96
Ag	2210	N/A	N/A	10.49
Zn	906	N/A	N/A	7.31
Cu	2600	N/A	N/A	8.96
Sn	2270	N/A	N/A	

Insoluble in water
 Solid gray particulate matter. May have yellowish tint.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point: N/A
 Flammable limits: N/A
 Extinguishing media: N/A
 Special firefighting procedures: None
 Unusual fire and explosion hazards: None

SECTION V - HEALTH HAZARD DATA

LIMIT VALUES (all concentrations mm/M³)

FORM	PEL	CEILING	PEAK	TLV	TLV-STEL
Copper fume	0.1			0.2	
Silver Metal	0.1			0.1	
Zinc Oxide fume	5.0	15.0		5.0	10.0
Copper dst/mst	1.0			1.0	(2)
Tin(inorg.cmpnd)	2.0			2.0	(4)

EFFECTS OF OVERDOSE OR PROLONGED EXPOSURE

SYMPTOMS:

Blue gray eyes, nasal septum, skin	Tight chest
Chills	Weakness & lassitude
Cough	
Dermatitis	
Dry throat	
Dyspnea	
Fever	
Gastroinstnl - disorders	
Irritated eyes	
Irritated muc - membrane	
Irritated pharynx	
Irritated skin	
Metal fume fever	
Metallic taste	
Muscle ache	
Nasal ulcerations	
Nausea or vomiting	
Rales	
Skin ulcerations	
Sweet or metallic taste	

EMERGENCY FIRST AID PROCEDURE:

EYE CONTACT

Immed. Wash eyes with large amounts of water. Lift lower and upper lids. Get medical attention

SKIN CONTACT

Flush with water. If irritation persists, get medical attention.

INHALATION

Move to fresh air at once. If breathing has stopped, perform art. resp.

INGESTION

If conscious, give larger amounts of water. Induce vomiting by tickling throat.

SECTION VI - REACTIVITY DATA

The material is stable and does not produce hazardous decomposition products.
Hazardous polymerization will not occur.

MATERIALS TO AVOID

Acetylene
Acetylene, ammonia, hydrogen peroxide
Chlorinated rubber
Acetylene, Magnesium metal
Chlorine, turpentine

SECTION VII - SPILL & DISPOSAL PROCEDURES

Clean up using methods, which avoid dust generation. Dry sweeping is not recommended. Vacuuming is permissible if machine has an appropriate filter to prevent airborne dust levels from exceeding the PEL or TLV, wet dust mopping, or wet clean up. If airborne dust is generated, use an appropriate NIOSH - approved respirator.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATOR	Use NIOSH - approved respirators only (see 29 CFR 1910.13A) Fume or high-efficiency particulate respirator
CLOTHING	Wear appropriate clothing to prevent any possibility of skin contact
EYE PROTECTION	Wear eye protection to prevent any possibility of eye contact
WASHING RECOMMENDATIONS	Wash promptly when skin becomes contaminated
CHANGE OF APPAREL	Change clothing daily if there is a reasonable chance of contamination
SPECIAL APPAREL REMOVAL	Promptly remove non-impervious clothing that becomes contaminated
OTHER PROVISIONS	Eyewash

SECTION IX - SPECIAL PRECAUTIONS

During casting, grinding and polishing the technician should work using an approved exhaust system. Practice good housekeeping to avoid particulate buildup, and clean or replace filters regularly to assure adequate evacuation. During grinding use goggles to prevent damage to eyes.