

	UNITED PRECIOUS METAL REFINING, INC. 2781 Townline Road, Alden, NY 14004 PHONE : (716) 683-8334 FAX (716) 683-5433, (800) 533-6657	MATERIAL SAFETY DATA SHEET #16									
		EFFECTIVE DATE: 1/1/2013									
Section I - GENERAL INFORMATION											
IDENTIFICATION	EMERGENCY TELEPHONE NUMBER 1-716-683-8334										
This M.S.D.S. applies to alloy # 120, # 341, # 342, # 650 Yellow Casting Bronze / Brass Alloys.											
Section II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION											
Compositions include some or all of the following: Copper, Zinc & Tin Above listed ingredients which do not have a published OSHA PEL have been omitted from the table at right		<table border="1"> <thead> <tr> <th>Material</th> <th>CAS#</th> <th>PEL</th> </tr> </thead> <tbody> <tr> <td>Copper</td> <td>7440-50-8</td> <td>1 mg/m³</td> </tr> <tr> <td>Silicon</td> <td>7440-21-3</td> <td>15 mg/m³</td> </tr> </tbody> </table>	Material	CAS#	PEL	Copper	7440-50-8	1 mg/m ³	Silicon	7440-21-3	15 mg/m ³
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Copper	7440-50-8	1 mg/m ³									
Silicon	7440-21-3	15 mg/m ³									
Section III - PHYSICAL DATA											
BOILING POINT 2300 °F	SPECIFIC GRAVITY 9.13										
VAPOR PRESSURE N/A	MELTING POINT 1450 °F										
VAPOR DENSITY N/A	EVAPORATION RATE N/A										
SOLUBILITY IN WATER N/A											
APPEARANCE AND ODOR Metallic sheets of various colors with no odor.											
Section IV - FIRE AND EXPLOSION HAZARD DATA											
FLASH POINT None	FLAMMABLE LIMITS None										
EXTINGUISHING MEDIA Water											
SPECIAL FIRE FIGHTING PROCEDURES None											
UNUSUAL FIRE AND EXPLOSION HAZARDS None											
Section V - REACTIVITY DATA											
STABILITY Under normal conditions of use, this product is stable.											
INCOMPATIBILITY None											
HAZARDOUS DECOMPOSITION OR BY PRODUCTS None											
HAZARDOUS POLYMERIZATION None											

Section VI - HEALTH HAZARD DATA					
ROUTES OF ENTRY:	As Delivered:	INHALATION NO	SKIN NO	EYES NO	INGESTION NO
HEALTH HAZARDS					
As delivered, these compounds pose no health hazards. If metal is vaporized, metal fumes such as; Zinc Oxide - OSHA PEL = 5 mg/m3 (fume): 15 mg/m3 (dust) Tin Oxide - OSHA PEL = 2 mg/m3 Silver Fume- OSHA PEL = .01mg.m3 may be released. Respiratory irritation and symptoms of metal fume fever (see below) may occur.					
CARCINOGENICITY					
NTP - No IARC Monographs - No OSHA Regulated - No					
SIGNS AND SYMPTOMS OF EXPOSURE	As Delivered:	INHALATION NO	SKIN NO	EYES NO	INGESTION NO
* Exposure to elevated concentrations of metal fumes > OSHA PEL may cause metal fume fever - chills, shakes, fever, nausea, cough, metallic taste, headache, blurred vision, vomiting, fatigue, tightness in chest, decreased pulmonary function. * Research indicates that zinc should pass through the system within 48 hrs.					
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE					
None					
EMERGENCY AND FIRST AID PROCEDURES					
Move to fresh air. General emergency and first aid procedures.					
Section VII - PRECAUTIONS FOR SAFE HANDLING AND USE					
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED					
None					
WASTE DISPOSAL METHOD					
Return to refiner for recovery of metals.					
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE					
None					
OTHER PRECAUTIONS					
None					
Section VIII - CONTROL MEASURES					
RESPIRATORY PROTECTION					
As delivered, no respiratory protection is required to handle material . May need NIOSH approved respirator use if dust or fume present.					
VENTILATION:					
Adequate ventilation may be required to keep exposures to limits below OSHA PELs.					
PROTECTIVE GLOVES	EYE PROTECTION				
None	Safety glasses				
OTHER PROTECTIVE CLOTHING OR EQUIPMENT					
Fire-proof protective equipment should be worn if molten metal is to be handled.					
WORK/HYGIENIC PRACTICES					
General clean work practices (e.g., washing hands after handling material) and standard safety practices.					
REVIEWED BY: James Voros		REVIEW DATE: 1/1/2013			