



PRECIOUS METAL REFINING, INC.
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MATERIAL SAFETY DATA SHEET #1

EFFECTIVE DATE:
 1/1/2013

Section I - GENERAL INFORMATION

IDENTIFICATION Gold & Silver Casting Alloys & Pure Metals	EMERGENCY TELEPHONE NUMBER 1-716-683-8334
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This M.S.D.S. applies to the following alloy #'s and pure metals:
 * Series - 200's; 300's; 400's; 500's; 600's; 700's; 800's; & 900's
 * (#)SA; SHK; S-(#); 60, 84, 86, 98, 99, T(#), SILVADIUM (#), ROM(#)
 * UA(#); UW(#), NA(#); IG-75, IG-585; R414; F1; ASTRUM 2; STAGCG(#); VHF(#); PD (#)
 * ZINC, COPPER, FINE GOLD, FINE SILVER, PLATINUM, PALLADIUM, STERLING REPLENISHER
 * CASTING GRAINS - Pt, Pd, 6K, 10K, 14K, 18K, - YELLOW, WHITE, PINK, GREEN, 22K (YELLOW)

Section II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Compositions include some or all of the following:

Zinc, Nickel, Boron, Palladium, Platinum,
 Indium, Silicon, Copper, Gold, Silver,
 Iridium, Germanium, Gallium, Ruthenium

Above listed materials which do not have a published
 OSHA PEL have been omitted from the table at right

Material	CAS#	PEL
Silver	7440-22-4	.01 mg/m ³
Platinum	7440-06-4	1 mg/m ³
Nickel	7440-02-0	1 mg/m ³
Copper	7440-50-8	1 mg/m ³
Boron	1303-86-2	15 mg/m ³
Silicon	7440-21-3	15 mg/m ³

Section III - PHYSICAL DATA

BOILING POINT N/A	VAPOR PRESSURE N/A	VAPOR DENSITY N/A	HSO Solubility N/A	SPECIFIC GRAVITY 7.30 - 12.00 Nominal	MELTING POINT °1616 F Nominal	EVAPORATION RATE N/A
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APPEARANCE AND ODOR
 Granules of solid metal of various colors and no odor.

Section IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT None	EXTINGUISHING MEDIA None	SPECIAL FIRE FIGHTING PROCEDURES None	FLAMMABLE LIMITS None	UNUSUAL FIRE AND EXPLOSION HAZARDS None
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PRECAUTIONARY NOTE: Do not attempt to extinguish molten metal while being melted. Furnace could destruct.
 Shut off gas or electricity.

Section V - REACTIVITY DATA

STABILITY Stable	INCOMPATIBILITY None	HAZARDOUS DECOMPOSITION OR BY PRODUCTS None	HAZARDOUS POLYMERIZATION None
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Section VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: As Delivered:	INHALATION NO	SKIN NO	EYES NO	INGESTION NO
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HEALTH HAZARDS
 As delivered, these materials pose no health hazard.
 If metal is vaporized, metal fumes as below may be released. Metal fume fever may occur.,
 Zinc Oxide - OSHA PEL = 5 mg/m³ (fume): 15 mg/m³ (dust)
 Silver Fume- OSHA PEL = .01mg.m³

CARCINOGENICITY
 NTP - No IARC Monographs - No OSHA Regulated - No

SIGNS AND SYMPTOMS OF EXPOSURE
 * 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.
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Section VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED General Cleanup	WASTE DISPOSAL METHOD Return to refiner for recovery of metals.	PRECAUTIONS FOR HANDLING AND STORAGE None	OTHER PRECAUTIONS None
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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 None	EYE/FACE PROTECTION May be required if cutting or melting material
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OTHER PROTECTIVE CLOTHING OR EQUIPMENT
 Safety shoes. Fire-proof garments 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