MATERIAL	SAFETY	DATA	SHEET
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SPEC/MSDS NUMBER

5841

DATE 7/10/2013

		(REVIEW DATE: 01/18/13)				
		PRODUCT ID	ENTIFICATION			
TRADE NAME			GENERIC NAME			
LINOTYPE			LINOTYPE			
MANUFACTURER'S NAME			CAS NUMBER			
BELMONT METALS INC.			SEE BELOW			
ADDRESS (STREET)			PHONE NUMBER (EMERGENCY)			
330 BELMONT AVE.			718-342-4900			
CITY	STATE	ZIP	CHEMICAL STRUCTURE			
BROOKLYN,	NEW YORK	11207				

I							
CHEMICAL AND/OR COMMON NAME	CAS NUMBER	%	TLV mg/m ³	PEL mg/m ³			
*ANTIMONY	7440-36-0	12.0	0.5	0.5			
*COPPER	7440-50-8	.10 MAX.	1.0-dust&mists	1.0-dust			
			0.2-fume	0.1-fume			
TIN	7440-31-5	4.0	2.0-inorganics	2.0-inorganics			
			except as oxides	except as oxides			
	7439-89-6	.10 MAX.	SEE OXIDE	SEE OXIDE			
IRON OXIDE	1309-37-1		5.0-fume	10.0-dust & fume			
*LEAD	7439-92-1	83.9	0.15	0.05			
*ARSENIC	7440-38-2	.35 MAX.	0.1	0.01			

	(• PH	YSICAL DATA			
BOILING POINT	VAPOR PRESSURE		MELTING POINT			
NOT APPLICABLE	NOT APPLICABLE		463°F.			
SOLUBILITY IN WATER	VAPOR DENSITY (AIR=1)		PERCENT VOLATILE EVAPORATION RATE (=1			PRATION RATE (=1)
NOT APPLICABLE	NOT APPLICABLE		NOT APPLICABLE NOT APPLICABL			APPLICABLE
APPEARANCE AND ODOR						
GRAY METALLIC - NO ODOR						
	III ● F	FIRE AND	EXPLOSION DATA			
FLASH POINT		FLAMM	ABLE LIMITS	LEL		UEL
NOT APPLICABLE		NOT A	APPLICABLE	NOT APPLIC	ABLE	NOT APPLICABLE
EXTINGUISHING MEDIA SAND,	DRY CHEMICAL, OR CO	O2 SHO	ULD BE USED ON	N SURROUND	ING FIF	RE. DO NOT USE
WATER ON FIRE WHERE MO	LTEN METAL IS PRESE	NT.				
SPECIAL FIREFIGHTING PROCEDUR	ES USE FULL BODY P	ROTEC	TIVE CLOTHING	AND FULL FA	CE PIE	CE, SELF CONTAINED
BREATHING APPARATUS OP						
UNUSUAL FIRE OR EXPLOSION HAZ	ARDS MOLTEN MET	ALS PR	RODUCE FUME, V	APOR, AND C	R DUS	T THAT MAY BE
TOXIC AND/OR RESPIRATOR	Y IRRITANTS. METAL F	REACTS	WITH OXIDIZING	G AGENTS.		
	IV ● HE	ALTH HA	ZARD INFORMATION	I		
	HAZARD BY ROUTES C	OF EXPOS	SURE (Indicate chronic	and acute)		
INHALATION VAPOR AND/OR	FUME MAY BE IRRITA	TING TO	OTHE RESPIRAT	ORY SYSTEM	AND C	AN RESULT IN
BOTH ACUTE AND CHRONIC						
INGESTION DUST VAPOR AND/OR FUME MAY BE ABSORBED BY THE DIGESTIVE SYSTEM AND CAN RESULT IN BOTH						
ACUTE AND CHRONIC OVER EXPOSURE						
EYE						
DUST VAPOR AND/OR FUME MAY CAUSE IRRITATION						
SKIN CONTACT/ABSORPTION						
DUST VAPOR AND/OR FUME MAY CAUSE IRRITATION						
SIGNS AND SYMPTOMS ASSOCIATED WITH EXPOSURE OVER TLV						
SEE ATTACHED						
MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED						
NOT APPLICABLE						
ANY PART LISTED AS CARCINOGENS (NTP,IARC,OSHA)						
SEE SECTION X						
			HEALTH H	AZARD INFORM	IATION	CONTINUED ON PAGE 2

V HEALTH HAZARD INFORMATION (Continued) 						
EMERGENCY/FIRST AID PROCEDURES						
INHALATION REMOVE FROM EXPOSURE. GET MEDICAL ATTENTION						
INGESTION GET IMMEDIATE MEDICAL ATTENTION						
EYE CONTACT						
FLUSH WITH COPIOUS QUANTITIES OF	WATER, GET MEDI	CAL ATTEN	TION IMMEDIATE	LY		
WASH THOROUGHLY WITH SOAP AND	WATER					
SKIN ABSORPTION NOT APPLICABLE						
VI	CONDITIONS FOR	SAFE USE (W	(hen over TLV)			
RESPIRATORY PROTECTION		•	,			
NIOSH/MSHA APPROVED RESPIRATOR	R FOR TOXIC DUST A	ND OR FUN	ЛЕ			
FACE SHIELD OR VENTED GOGGLES S	HOULD BE WORN					
PROTECTIVE GLOVES GLOVES SHOULD BE WORN WHEN HA	NDI ING THIS PRODI	ICT				
OTHER PROTECTIVE CLOTHING/EQUIPMENT	FULL PROTECTIVE		(COVERALLS) SH	IOULD E	BE WORN DURING	
PRODUCT USE AND PROPERLY LAUNE VENTILATION REQUIREMENTS	JERED AFTER USE					
LOCAL VENTILATION RECOMMENDED	- REQUIRED IF THR	ESHOLD LI	MITS ARE EXCEE	DED		
	VII • REA	ACTIVITY DATA	4			
IS MATERIAL STABLE? YES		WILL HAZAR	DOUS POLYMERIZAT	ION OCCU	JR	
INCOMPATIBILITY		CONDITIONS				
STRONG OXIDIZERS MAY CAUSE A VIOLENT REACTION NOT APPLICABLE						
HAZARDOUS DECOMPOSITION PRODUCTS AT TEMPERATURES ABOVE MELTING I		S OR VAPOR	RS MAY BE EMITT	ED		
		LEAK PROCE				
STEPS TO BE TAKEN IF MATERIAL IS SPILLED O				IMED O	R WET SWEPT WHEN	
STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED MATERIAL SHOULD BE VACUUMED OR WET SWEPT WHEN VACUUMING IS NOT FEASIBLE – PARTICULATE MATTER SHOULD BE STORED IN DRY CONTAINERS FOR LATER DISPOSAL. DO NOT USE COMPRESSED AIR AS A MEANS OF CLEANING.						
WASTE DISPOSAL METHOD DISPOSE OF TOXIC SUBSTANCES AND HAZARDOUS WASTE IN ACCORDANCE						
WITH LOCAL, STATE, AND FEDERAL REGULATIONS.						
RCRA REGULATED			CERCULA (Superfund) REPORTABLE QUANTITY			
	NOT APPLICABLE DOT PROPER SHIPPING					
DOT REGULATED						
IX • SPECIAL PRECAUTIONS						
SPECIAL PRECAUTIONS FOR HANDLING AND STORAGE SIGNS & LABELS IN WORK AREAS AND FOR CONTAMINATED						
CONTAINERS OR EQUIPMENT MAY BE REQUIRED UNDER OSHA REGULATIONS. MEDICAL EXAMINATIONS,						
MONITORING, RECORD KEEPING AND HYGIENE FACILITIES AND PRACTICES SPECIFIED BY OSHA MAY HAVE TO BE MET. EMPLOYEE TRAINING PROGRAM MAY ALSO BE REQUIRED.						
OTHER PRECAUTIONS PRACTICE GOOD HOUSEKEEPING & PERSONAL HYGIENE PROCEDURES. NO TOBACCO,						
OR FOOD IN WORK AREA. WASH THOROUGHLY BEFORE EATING OR SMOKING. AVOID INGESTION OR INHALATION.						
TAKE A SHOWER AND CHANGE CLOTHES AT END OF SHIFT. DO NOT WEAR CONTAMINATED CLOTHING HOME. DO NOT USE COMPRESSED AIR ON CLOTHING.						
PREPARED BY TELEPHONE NO. TITLE						
HERB DOYLE	718-342-4900		SALES	MANAG	ER	

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, THE MANUFACTURER MAKES NO WARRANTY WITH RESPECT THERETO, AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON

<u>X HEALTH HAZARD DATA</u>

OVER HEATING OF ALLOY CAN PRODUCE METAL FUMES A ND OXIDES. MACHINING OPERATIONS SUCH AS GRINDING, SAWING, BUFFING CAN GENERATE AIRBORNE PARTICULATE IN THE WORK AREA. THE EXPOSURE LEVELS INDICATED IN SECTION II ARE RELEVANT TO THESE AND OTHER OPERATIONS.

FOLLOWING ARE SYMPTOMS OF OVER EXPOSURE TO THE VARIOUS INGREDIENTS:

*ANTIMONY

ANTIMONY AND ITS COMPOUNDS ARE IRRITATING TO THE SKIN AND MUCOUS MEMBRANES AND ARE SYSTEMIC POISONS. EFFECTS ARE REPORTED TO INCLUDE A METALLIC TASTE IN THE MOUTH, VOMITING, COLIC, LOSS OF APPETITE AND WEIGHT, AND DIARRHEA. IN ADDITION, DERMATITIS MAY RESULT WHICH STARTS AS INFLAMMATION OF THE HAIR FOLLICLES AND CAN PROGRESS THROUGH PUS FORMATION AND SLOUGHING TO LEAVE A CONTRACTED SCAR.

CHRONIC INHALATION OF ANTIMONY TRIOXIDE IS REPORTED TO PRODUCE A REDUCTION IN WHITE BLOOD CELLS AND DAMAGE TO THE LIVER. ANTIMONY AND ITS COMPOUNDS HAVE BEEN IDENTIFIED AS SUSPECTED CANCER-CAUSING AGENTS.

*ARSENIC

ARSENIC IS A CUMULATIVE POISON WHICH IS DEPOSITED IN THE LIVER, KIDNEYS, HAIR AND NAILS. INHALED ARSENIC IS EXCRETED THROUGH THE KIDNEYS AND CAN BE DETECTED IN THE URINE HOURS TO YEARS AFTER EXPOSURE. SYMPTOMS OF PERSONS WHO HANDLE SOLID ARSENIC COMPOUNDS ARE HUSKY VOICE, COUGH PERFORATION OF THE NASAL SEPTUM, ULCERATION OF THE SKIN, LOSS OF HAIR AND NAILS, WARTS AND SOMETIMES, SLOW, NON-MALIGNANT SKIN CANCERS.

*COPPER

MELTING, GRINDING, and CUTTING OF COPPER MAY PRODUCE FUMES OR DUST EXPOSURE AND BREATHING THESE FUMES OR DUST MAY PRESENT POTENTIALLY SIGNIFICANT HEALTH HAZARDS. FUMES OF COPPER MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND SKIN AND HAIR DISCOLORATION. WHILE INDUSTRIAL DERMATITIS HAS NOT BEEN REPORTED, KERATINIZATION OF THE HANDS AND THE SOLES OF THE FEET HAS BEEN REPORTED. SYSTEMICALLY AS WELL, COPPER DUST AND FUME CAUSE IRRITATION OF THE UPPER RESPIRATORY TRACT, METALLIC TASTE IN THE MOUTH, AND NAUSEA. CHRONIC POISONING RESULTS IN WILSON'S DISEASE CHARACTERIZED BY A HEPATIC CIRRHOSIS, BRAIN DAMAGE, DENYELINATION, RENAL DISEASE AND COPPER DEPOSITION IN THE CORNEA.

<u>IRON</u>

THE INHALATION OF IRON OXIDE FUMES MAY CAUSE AN APPARENT BENIGN PNEUMOCONIOSIS WHICH IS CALLED SIDEROSIS. THIS DISEASE IS REPORTED NOT TO BE DISABLING, BUT MAKES X-RAY OF OTHER LUNG CONDITIONS DIFFICULT OR IMPOSSIBLE.

*LEAD

SHORT TERM EXPOSURE- LEAD IS AN ACCUMULATIVE POISON. INHALATION EFFECTS OF EXPOSURE TO FUMES OR DUST OF INORGANIC LEAD MAY NOT DEVELOP QUICKLY. SYMPTOMS MAY INCLUDE DECREASED PHYSICAL FITNESS, FATIGUE, SLEEP DISTURBANCE, HEADACHE, ACHING BONES AND MUSCLES, CONSTIPATION, ABDOMINAL PAINS, AND DECREASING APPETITE. THE EFFECTS ARE REVERSIBLE AND COMPLETE RECOVERY IS POSSIBLE. INHALATION OF LARGE AMOUNTS OF LEAD MAY LEAD TO SEIZURES, COMA, AND DEATH.

*LEAD

LONG TERM EXPOSURE-LONG TERM EXPOSURE CAN RESULT IN BUILDUP OF LEAD IN THE BODY AND MORE SEVERE SYMPTOMS. THESE MAY INCLUDE ANEMIA, PALE SKIN, A BLUE LINE AT THE GUM MARGIN, DECREASED HANDGRIP STRENGTH, ABDOMINAL PAIN SEVERE CONSTIPATION, NAUSEA, VOMITING, AND PARALYSIS OF THE WRIST JOINT. PROLONGED EXPOSURE MAY ALSO RESULT IN KIDNEY DAMAGE. IF THE NERVOUS SYSTEM IS AFFECTED, USUALLY DUE TO VERY HIGH EXPOSURES, THE RESULTING EFFECTS INCLUDE SEVERE HEADACHE, CONVULSIONS, COMA, DELIRIUM, AND DEATH, ALCOHOL INGESTION AND PHYSICAL EXERTION MAY BRING ON SYMPTOMS. CONTINUED EXPOSURE CAN RESULT IN DECREASED FERTILITY AND/OR INCREASED CHANCES OF MISCARRIAGE OR BIRTH DEFECTS.

X HEALTH HAZARD DATA [CONTINUED]

TIN

THE INHALATION OF INORGANIC TIN FUMES OR DUST MAY CAUSE AN APPARENT BENIGN PNEUMOCONIOSIS CALLED STANNOSIS, WHICH IS REPORTED NOT TO BE DISABLING.

XI SPECIAL INSTRUCTIONS FOR CHEMICALS MARKED WITH AN ASTERISK (*)

THOSE CHEMICALS MARKED WITH AND ASTERISK (*) ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 IN 40 CFR PART 372.

THIS INFORMATION IS TAKEN FROM SOURCES BELIEVED TO BE RELIABLE; HOWEVER, THE MANUFACTURER MAKES NO WARRANTY AS TO THE ABSOLUTE CORRECTNESS OR SUFFICIENCY OR ANY OF THE FOREGOING OR THAT ADDITIONAL OR OTHER MEASURES MAY BE REQUIRED UNDER PARTICULAR CONDITIONS.

7/10/2013