

MATERIAL SAFETY DATA SHEET

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 SPEC/MSDS NUMBER
 DATE

 5841
 7/10/2013

(REVIEW DATE: 01/18/13)

		PRODUCT I	DENTIFICATION				
TRADE NAME			GENERIC NAME				
			LINOTYPE				
LINOTYPE MANUFACTURER'S NAME			CAS NUMBER				
BELMONT METALS INC.			SEE BELOW	7 3			
ADDRESS (STREET)	A SOLO		PHONE NUMBER (EMERGENCY)				
330 BELMONT AVE.			718-342-4900				
CITY	STATE	ZIP	CHEMICAL STRUCTURE				
BROOKLYN,	NEW YORK	11207					

PRODUCT INGREDIENTS PEL mg/m³ TLV mg/m³ CAS NUMBER % CHEMICAL AND/OR COMMON NAME 0.5 12.0 7440-36-0 *ANTIMONY 1.0-dust .10 MAX. 1.0-dust&mists 7440-50-8 *COPPER 0.1-fume 0.2-fume 2.0-inorganics 2.0-inorganics 7440-31-5 4.0 TIN except as oxides except as oxides SEE OXIDE .10 MAX. SEE OXIDE 7439-89-6 10.0-dust & fume 1309-37-1 5.0-fume **IRON OXIDE** 0.05 7439-92-1 83.9 0.15 *LEAD

*LEAD		1	7439-92-1	83.9	0.15		0.03
*ARSENIC			7440-38-2	.35 MAX.	0.1		0.01
7 II IOM IIO	11	PH	YSICAL DATA				
DOWNIO DOINT	VAPOR PRESSURE		MELTING POINT				
BOILING POINT	NOT APPLICABLE		463° F.				
NOT APPLICABLE SOLUBILITY IN WATER	VAPOR DENSITY (AIR-1)		PERCENT VOLATILE EVAPORATION RATE (=1)				
	NOT APPLICABLE		NOT APPLICABLE NOT APPLICABLE				PPLICABLE
NOT APPLICABLE APPEARANCE AND ODOR	THO! ALL CIONBELL					EM. 10	
GRAY METALLIC - NO ODOF	₹						
		FIRE AND	EXPLOSION DAT	ΓΑ			
FLASH POINT			ABLE LIMITS	LEL	A	6 (MANAGEMENT) (MANAGEMENT)	UEL
MAT ADDI IOADI E		NOT A	APPLICABLE	NOT	APPLIC	CABLE	NOT APPLICABLE
EXTINGUISHING MEDIA SAND	, DRY CHEMICAL, OR C	O ₂ SHO	ULD BE USED	ON SURF	ROUNE	DING FIF	RE. DO NOT USE
WATER ON FIRE WILLDE MC	NITENIMETALIS PRESE	NT					
SPECIAL FIREFIGHTING PROCEDU	RES USE FULL BODY F	PROTEC	TIVE CLOTHI	NG AND F	ULL FA	ACE PIE	CE, SELF CONTAINED
BREATHING APPARATUS OF	DEDITED ON POSITIVE	PRESS	URE MODE.				
UNUSUAL FIRE OR EXPLOSION HA	ZARDS MOLTEN MET	TALS PE	RODUCE FUM	E, VAPOR	AND (OR DUS	T THAT MAY BE
TOXIC AND/OR RESPIRATO	BY IRRITANTS. METAL	REACTS	S WITH OXIDIZ	ZING AGE	NTS.		
TOXIO AND/OTT/ILES ITEXT					\$		
	ſV ● HI	EALTH H	AZARD INFORMA	TION	ute)		
	HAZARD BY ROUTES (OF EXPO	SURE (Indicate C	TATODY S	VOTEN	A AND C	AN RESULTIN
INHALATION VAPOR AND/O	R FUME MAY BE IRRITA	HING I	J THE RESPI	RAIDHTS	ISIE	VI AND C	ANTILOGETIN
BOTH ACUTE AND CHRONIC	OVEREXPOSURE. ND/OR FUME MAY BE A	20000	CD DV TUE D	CECTIVE	CVCTE	CIAA NA	CAN RESULT IN BOTH
INGESTION DUST VAPOR A	ND/OR FUME MAY BE A	RSORB	ED BY THE D	GESTIVE	31316	INI MIND	OANTILOOLI III DO II
ACUTE AND CHRONIC OVE	REXPOSURE					·············	
EYE		~					
DUST VAPOR AND/OR FUM	E MAY CAUSE IRRITATION	NC					
SKIN CONTACT/ABSORPTION							
DUST VAPOR AND/OR FUM	E MAY CAUSE IRRITATION	ON					
SIGNS AND SYMPTOMS ASSOCIAT	TED WITH EXPOSURE OVER T	LV					
SEE ATTACHED							
MEDICAL CONDITIONS WHICH MA	Y BE AGGRAVATED						
NOT APPLICABLE							
ANY PART LISTED AS CARCINOGE	ENS (NTP,IARC,OSHA)						
SEE SECTION X						TATE OF THE PARTY	CONTINUED ON PACE
			HEAL	IH HAZARI	INFO	MAIIUN	CONTINUED ON PAGE

				VALUE - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	PAGE 2 OF 4			
V ● HEALTH HAZARD INFORMATION (Continued)								
EMERGENCY/FIRST AID PROCEDURES								
INHALATION								
REMOVE FROM EXPOSURE. GET MED	ICAL ATTENTION							
INGESTION								
GET IMMEDIATE MEDICAL ATTENTION								
EYE CONTACT								
FLUSH WITH COPIOUS QUANTITIES OF	WATER, GET MEDI	CAL ATTEN	ITION IMM	EDIATELY				
SKIN CONTACT								
WASH THOROUGHLY WITH SOAP AND WATER								
SKIN ABSORPTION								
NOT APPLICABLE								
VI	• CONDITIONS FOR	SAFE USE (V	Vhen over Ti	מע				
RESPIRATORY PROTECTION		(
NIOSH/MSHA APPROVED RESPIRATOR	REOR TOXIC DUST A	ND OR FU	ME					
EYE PROTECTION	11 011 10/10 00077	0 0.						
FACE SHIELD OR VENTED GOGGLES S	HOULD BE WORN							
PROTECTIVE GLOVES	ozz zz monat				· · · · · · · · · · · · · · · · · · ·			
GLOVES SHOULD BE WORN WHEN HA	NDLING THIS PRODI	JCT						
			(COVERA	LLS) SHOULD	BE WORN DURING			
OTHER PROTECTIVE CLOTHING/EQUIPMENT FULL PROTECTIVE CLOTHING (COVERALLS) SHOULD BE WORN DURING PRODUCT USE AND PROPERLY LAUNDERED AFTER USE								
VENTILATION REQUIREMENTS								
LOCAL VENTILATION RECOMMENDED - REQUIRED IF THRESHOLD LIMITS ARE EXCEEDED								
VII ● REACTIVITY DATA								
IS MATERIAL STABLE?	111 - 172			MERIZATION OC	CUB			
YES				NO				
INCOMPATIBILITY		CONDITIONS TO AVOID						
STRONG OXIDIZERS MAY CAUSE A VIC	NOT APPLICABLE							
HAZARDOUS DECOMPOSITION PRODUCTS								
AT TEMPERATURES ABOVE MELTING I	POINT TOXIC FUMES	OR VAPO	RS MAY B	E EMITTED				
VIII • SPILL OR LEAK PROCEDURES								
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	RCRA NUMBER		CERCULA	(Superfund) REPO	PRTABLE QUANTITY			
NO	NOT APPLICABLE		NOT APPLICABLE					
DOT REGULATED	DOT PROPER SHIPPING	NAME	DOT HAZARD CLASS		DOT NUMBER			
NO	NOT APPLICABLE		NOT APPLICABLE		NOT APPLICABLE			
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 MANA	GER			

X HEALTH HAZARD DATA

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 CANCERCAUSING 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.

IRON

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