

MATERIAL SAFETY DATA SHEET

Required under USOL Safety and Health Regulations for Ship Repairing.
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
Form Approved
OMB No. 4433-1137

SECTION I

MANUFACTURER'S NAME: **Borgulus Chemical Company, Inc.**
 ADDRESS (Number, Street, City, State, and ZIP Code): **29 N. 18th Street, New York, N.Y. 10018-1777**
 CHEMICAL NAME AND SYNONYMS: **Solder 50/50 Tin/Lead**
 EMERGENCY TELEPHONE NO.: **1-212-869-4330**
 FEDERAL HAZARDOUS WASTE ID NUMBER: **60015-801058-58758**

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	% (w/w)	TLV (ppm)	ALLOY AND METALLIC COATINGS	% (w/w)	TLV (ppm)
PAINTS PRESERVATIVES & SOLVENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL		
ADDITIONALS			PLUG COATING OR CORE FLOW		
OTHERS			OTHERS		

HAZARDOUS MIXTURES OR OTHER LIQUID, SOLID, OR GASES

Mixture: Lead (CAS7439-92-1) 43.0 g/m³
 Tin (CAS7440-31-5) 2.0 mg/m³
 Zinc Chloride (CAS7646-85-7) 0.75 mg/kg
 Ammonium Chloride (CAS12125-02-9)

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	N/A	SPECIFIC GRAVITY (w/w)	0.11
VAPOR PRESSURE (mm Hg)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE	N/A
SOLUBILITY IN WATER	Slightly miscible	with water	
APPEARANCE AND ODOR	Gray, silvery paste.	Odor - none.	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (closed cup): N/A
 FLASH POINT (open cup):
 SELF-HEATING: N/A
 STABILIZING MEDIA: Carbon dioxide, dry chemical or fog (water)
 SPECIAL FIRE FIGHTING PROCEDURES:
 NONE
 LOCAL FIRE AND EXPLOSION HAZARD: NONE

SECTION V - HEALTH HAZARD DATA

TLV-Threshold Limit Value: See attached sheet
 EFFECTS OF OVEREXPOSURE:
 EMERGENCY AND FIRST AID PROCEDURES:

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE	CONDITIONS TO AVOID
INCOMPATIBILITY (Hazard to itself)	STABLE	X
HAZARDOUS DECOMPOSITION PRODUCTS	Avoid contact with concentrated alkalis.	
HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID
	WILL NOT OCCUR	X

SECTION VII - SPILL OR LEAK PROCEDURES

IF YOU OR ANYONE ELSE HAS BEEN EXPOSED TO THIS MATERIAL, PLEASE CALL THE CHEMICAL SUPPLIER FOR FIRST AID INFORMATION.
 WASHING WITH LARGE QUANTITIES OF WATER.
 WATER TREATMENT METHOD:

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Self-Contained Breathing Apparatus (SCBA) or supplied air respirator with HEPA filter.
 NOT REQUIRED FOR NORMAL USE.
 LOCAL EXHAUST VENTILATION:
 MECHANICAL (General) Exhaust Fan
 PROTECTIVE GLOVES: RUBBER GLOVES
 OTHER PROTECTIVE EQUIPMENT: EYE PROTECTION: Safety goggles

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:
 If handling in quantities, rubber gloves and face shield recommended.
 OTHER PRECAUTIONS:

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