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SECTION I. PRODUCT - INFORMATION

PRODUCT NAME (NUMBER) Solder Alloys of Lead, Tin, Silver, Bismuth, Antimony and Indium

CHEMICAL FAMILY Inorganic Metals.
D.O.T. HAZARD CLASS Not regulated.

SECTION II. HAZARDOUS INGREDIENTS

INGREDIENTS	CAS NUMBER	WEIGHT PERCENT	OSHA PEL	ACGIH TLV
Lead	Product contains 7439-92-1	-	0,05mg/cum	0,05mg/cum
Tin	one or more of 7440-31-5	-	2,0mg/cum	2,0mg/cum
Silver	these metallic 7440-22-4	See	0,01mg/cum	0,1mg/cum
Bismuth	elements in varying 7440-69-9	Below	NE	NE
Antimony	percentages. 7440-36-0	-	0,5mg/cum	0,5mg/cum
Indium	7440-74-8	-	0,1mg/cum	0,1mg/cum

WEIGHT PERCENT Composition of solder alloys vary widely therefore no weight percent or specific gravity is given. (See product label for composition.)

SECTION III. PHYSICAL DATA

(PUBLISHED OR ESTIMATED VALUES)

BOILING POINT Deg. F.	NA	SPECIFIC GRAVITY (H ₂ O=1)	NA
(760mm Hg)		% VOLATILE BY WEIGHT	NA
VAPOR PRESSURE	NA	EVAPORATION RATE	NA
(mm Hg at 20 Deg. C.)			
VAPOR DENSITY (AIR=1)	NA		
SOLUBILITY IN WATER	Insoluble	pH	NA
APPEARANCE AND ODOR	Silver-gray metal, odorless, various shapes and sizes.		

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air) LEL: NA UEL: NA

FLASH POINT Deg. F. NA

EXTINGUISHING MEDIA NA

SPECIAL FIRE FIGHTING PROCEDURES Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing if involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARD Moderate in the form of dust when exposed to heat of flame. When heated to high temperatures, lead emits highly toxic fumes.

WILL OCCUR: WILL NOT OCCUR: X TO AVOID NA
SECTION VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Avoid inhalation of solder fume or dust. Vacuuming or washing is recommended. Do not use dry sweeping or compressed air cleaning systems.

WASTE DISPOSAL Scrap or waste solder should be recycled or stored in sealed containers for later disposal.

Must be in accordance with Federal, State and Local Laws and Regulations.

SECTION VIII. SPECIAL PROTECTION

RESPIRATORY A NIOSH/MSHA approved dust/fume respirator should be worn where airborne exposures may exceed OSHA/ACGIH permissible air concentrations.

EYEWEAR Safety glasses and/or face protection is recommended for exposures to dust or splash of hot metal.

**CLOTHING/
GLOVES** Protective gloves should be worn to reduce burn exposure. Work clothes should be worn and laundered in accordance with current OSHA lead standards.

VENTILATION Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below permissible air concentrations.

SECTION IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Food and drink should not be consumed or tobacco products used, nor cosmetics applied in areas where solder may be used. Always wash hands after handling solder and before eating, drinking or smoking.

OTHER PRECAUTIONS:

Containers: Since empty containers may retain product residues (vapor, liquid or solid) all labeled hazard precautions must be observed. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT**

TAKE INTERNALLY.

SECTION X. ADDITIONAL INFORMATION

NOTES TO PHYSICIAN: Lead and its inorganic compounds are neurotoxins which may produce peripheral neuropathy. For an overview of the effects of lead exposure, consult Occupational Safety and Health Administration Appendix A of Occupational Exposure to Lead (29CFR1910.1025).

HEALTH HAZARD DATA: (continued)

OVEREXPOSURE TO:

TIN: Dust or fume may cause irritation of the skin, mucous membranes, and may result in a benign pneumoconiosis (stannosis).

SILVER: May cause discoloration of eyes and skin, (argyria).

BISMUTH: May cause foul breath, a blue-black line on the gums, and stomatitis.

ANTIMONY: May cause gastrointestinal upset, sleeplessness, irritability and muscular pain. May also cause respiratory tract irritation, metallic taste or damage to kidney, liver or nervous system.

INDIUM: May cause weight loss, pulmonary edema, blood damage and degenerative changes in liver and kidneys.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED:

Diseases of the blood-forming organs, kidneys, nervous and possibly reproductive systems.

REGULATORY INFORMATION

California State Proposition 65:

„WARNING! This product may contain LEAD known to the State of California to cause cancer, birth defects or other reproductive harm.“ (See product label.)

Toxic Substance Control Act (TSCA) Status:

All ingredients of this product are listed on the TSCA inventory.

SARA TITLE III (Section 313):

Components that may be present in this product at a level which could require reporting under this statute are:

Lead, Antimony, Silver (See product label.)

EMERGENCY TELEPHONE NUMBER:

Tel . 0201 / 87102-0 (Mr. Thörner)

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