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Co. Reg &amp; GST No 199607905E Trader's Code (CR) 17905960000D

**MATERIAL SAFETY DATA SHEET**

**CHEMICAL NAME** : SOLDER ANODE SN85/15PB  
**MSDS NUMBER/REVISION** : 1109A\_MSDS\_REV 2.DOC  
**MSDS ISSUED DATE** : 23 JANUARY 2000  
**MSDS REVISED DATE** : 10 FEBRUARY 2007

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>TRADE NAME (COMMON NAME)</b> SOLDER ANODE SN85/15PB	<input type="checkbox"/> <b>CAS No</b>	<input type="checkbox"/> <b>GENERAL PRODUCT CODE</b> AEM-1109A
<b>CHEMICAL NAME AND/OR SYNONYM</b> SOLDER ANODE SN85/15PB		
<b>FORMULA</b> MIXTURE	<b>MOLECULAR WEIGHT</b> MIXTURE	
<b>PRODUCT USAGE</b> SN 85 / 15PB SOLDER PLATING		
<b>SUPPLIER NAME AND ADDRESS</b> AEM PLATRONICS (S) PTE. LTD. NO. 7 WOODLANDS WALK, SINGAPORE 738320		
<b>CONTACT PERSON</b> JITENDRA KUMER SARKER		<b>PHONE NUMBER</b> (65) 67513088

**2. COMPOSITION INFORMATION ON INGREDIENTS**

COMPONENT	CAS No	% WEIGHT
TIN (SN)	7440-31-5	85%
LEAD (PB)	7439-92-1	15%

### 3. HAZARDS OVERVIEW

<b>EMERGENCY OVERVIEW</b> NONE
<b>POTENTIAL HEALTH EFFECTS</b> NONE
<b>CHRONIC HEALTH HAZARDS</b> NONE
<b>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE</b> NONE

### 4. FIRST AID MEASURES

<b>EYE CONTACT</b> IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.
<b>SKIN CONTACT</b> WASH WITH SOAP AND WATER
<b>INHALATION</b> REMOVE TO FRESH AIR IF EFFECT OCCURS CONSULT A PHYSICIAN.
<b>INGESTION</b> DRINK LOT OF WATER, DO NOT INDUCE VOMITING, SEE DOCTOR

### 5. FIRE FIGHTING MEASURES

<b>FLASH POINT</b> NONE	<b>AUTO IGNITION</b> NONE	<b>LEL</b> N/A	<b>UEL</b> N/A	<b>LFL</b> NONE	<b>UFL</b> NONE
<b>EXTINGUISHING MEDIA</b> N/A			<b>EXTINGUISHING TO AVOID</b> N/A		
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> N/A					
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> N/A				<b>FLAMMABILITY FACTOR (0-3)</b> 0	

## 6. ACCIDENTAL RELEASE MEASURES

ABSORB WITH EARTH, SAND OR SIMILAR INERT MATERIAL, AND DISPOSE OFF WITH SOLID WASTE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATION.

## 7. HANDLING AND STORAGE

USE WITH ADEQUATE VENTILLATION FOR MISTING OPERATIONS.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS

IT IS RECOMMENDED TO USE ADEQUATE VENTILLATION FOR MISTING OPERATION.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

RUBBER GLOVES, SAFETY GOGGLES OR FULL FACE SHIELD, RUBBER APRON, RUBBER BOOTS AND NIOSH APPROVED CHEMICAL RESPIRATOR.

### EXPOSURE GUIDELINES

NO EFFECT OF EXPOSURE IS EXPECTED

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b> SILVER-WHITE LUSTROUS METAL		<b>ODOUR</b> ODOURLESS	
<b>BOILING POINT</b> NOT KNOWN		<b>VAPOR PRESSURE</b> NOT KNOWN	<b>VAPOR DENSITY (AIR=1)</b> NOT KNOWN
<b>FREEZING/MELTING POINT</b> SOLIDUS TEMPERATURE : 181°C LIQUIDUS TEMPERATURE : 219°C	<b>SOLUBILITY IN WATER</b> INSOLUBLE	<b>SPECIFIC GRAVITY</b> 7.68	<b>SOFTENING POINT</b> N/A

## 10. STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY (CONDITIONS TO AVOID)</b> NONE	<b>INCOMPATIBILITY (SPECIFIC MATERIALS TO AVOID)</b> NONE
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b> NONE	<b>HAZARDOUS POLYMERISATION</b> WILL NOT OCCUR.
<b>SPECIAL HAZARD FACTOR (0-3)</b> 0	<b>REACTIVITY FACTOR (0-3)</b> 0

**11. TOXICOLOGICAL INFORMATION**

<b>ACUTE TOXICITY</b> NONE		<b>EXPERIENCE IN PRACTICE</b> NONE	
<b>CARCINOGENICITY FACTOR (0-3)</b> NOT CARCINOGENIC	<b>MUTAGENICITY FACTOR (0-3)</b> NOT KNOWN	<b>TOXICITY FACTOR (0-3)</b> NOT KNOWN	
<b>OTHER</b> ---			

**12. ECOLOGICAL INFORMATION**

<b>ENVIRONMENTAL EFFECTS</b> NONE.		
<b>SPECIFIC HAZARDS</b> NONE		
<b>MOBILITY</b> NOT KNOWN	<b>PERSISTENCE / DEGRADABILITY</b> NOT KNOWN	<b>BIOACCUMULATION</b> NOT KNOWN
<b>SPECIFIC PRECAUTIONS</b> NOT KNOWN		
<b>ECOSTABILITY DATA</b> STABLE		<b>ECOTOXICITY DATA</b> NOT KNOWN
<b>AIR FACTOR (0-3)</b> N/A	<b>WATER FACTOR (0-3)</b> N/A	<b>SOIL FACTOR (0-3)</b> N/A

**13. DISPOSAL CONSIDERATIONS**

<b>WASTE TREATMENT</b> CONSULT LOCAL AUTHORITY AND WATER BOARD REGULATIONS.
<b>PACKAGING TREATMENT</b> PACK IN BOX

#### 14. TRANSPORT INFORMATION

	SPECIFIC HAZARDS	PACKAGING INFORMATION
LAND TRANSPORT	NOT CLASSIFIED AS HAZARDOUS GOODS UNDER TRANSPORT REGULATION	PACK IN 20KG BOX
MARINE TRANSPORT	NOT CLASSIFIED AS HAZARDOUS GOODS UNDER TRANSPORT REGULATION	PACK IN 20KG BOX
AIR TRANSPORT	NOT CLASSIFIED AS HAZARDOUS GOODS UNDER TRANSPORT REGULATION	PACK IN 20KG BOX

#### 15. REGULATORY INFORMATION

<b>LOCAL REGULATION</b> NONE OF THE COMPONENTS OF THIS PRODUCT IS BANNED UNDER SINGAPORE REGULATION.	
<b>EUROPEAN REGULATION</b> ALL COMPONENTS ARE ON THE EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES (EINECS)	
<b>U.S.A REGULATION</b> -----	
<b>LABELING</b>	
<b>NAME</b> SOLDER ANODE SN85/15PB	<b>HAZARD SYMBOL</b> NONE

#### 16. OTHER INFORMATION

FOR INDUSTRIAL USE ONLY, READ TECHNICAL DATA SHEET ABOUT PRODUCT PRIOR TO USE.
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