

**AEM Platronics (S) Pte. Ltd.**

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

**MATERIAL SAFETY DATA SHEET**

**CHEMICAL NAME** : 100% TIN ANODE AEM 1134  
**MSDS NUMBER/REVISION** : 1134\_MSDS\_REV 2.doc  
**MSDS ISSUED DATE** : 23 JANUARY 2000  
**MSDS REVISED DATE** : 30 JANUARY 2007

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>TRADE NAME (COMMON NAME)</b> 100% TIN ANODE BALL AEM 1134	<input type="checkbox"/> <b>CAS No</b> 7440-31-5	<input type="checkbox"/> <b>GENERAL PRODUCT CODE</b> AEM-1134
<b>CHEMICAL NAME AND/OR SYNONYM</b> TIN		
<b>FORMULA</b> Sn	<b>MOLECULAR WEIGHT</b> 118.71	
<b>PRODUCT USAGE</b> ELECTROPLATING		
<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) 6751 3088

**2. COMPOSITION INFORMATION ON INGREDIENTS**

COMPONENT	CAS No	% WEIGHT
TIN (SN)	7440-31-5	100%

### 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, RESTORE BREATHING AND CONSULT A PHYSICIAN.
<b>INGESTION</b> DRINK LOT OF WATER, DON 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> N/A	<b>UFL</b> N/A
<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> NONE	
<b>BOILING POINT</b> 2260 °C		<b>VAPOR PRESSURE</b> NOT KNOWN	<b>VAPOR DENSITY (AIR=1)</b> NOT KNOWN
<b>FREEZING/MELTING POINT</b> MELTING POINT 232°C	<b>SOLUBILITY IN WATER</b> INSOLUBLE	<b>SPECIFIC GRAVITY</b> 7.544	<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> BIODEGRADABLE	<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 REGULATIONS
<b>PACKAGING TREATMENT</b> PACK IN PLASTIC BAG

#### 14. TRANSPORT INFORMATION

	SPECIFIC HAZARDS	PACKAGING INFORMATION
<b>LAND TRANSPORT</b>	NOT CLASSIFIED AS HAZARDOUS GOODS UNDER TRANSPORT REGULATION	PACK IN PLASTIC BAG
<b>MARINE TRANSPORT</b>	NOT CLASSIFIED AS HAZARDOUS GOODS UNDER TRANSPORT REGULATION	PACK IN PLASTIC BAG
<b>AIR TRANSPORT</b>	NOT CLASSIFIED AS HAZARDOUS GOODS UNDER TRANSPORT REGULATION	PACK IN PLASTIC BAG

#### 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> 100% TIN ANODE	<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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