

# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 13.08.2013

Revision: 13.08.2013

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name: SN62RA10BAS86**

**Recommended Use of the Chemical and Restriction on Use:** Solder paste

**Details of Manufacturer or Importer:**

Element 14 Pty Ltd  
72 Ferndell Street  
Chester Hill NSW 2162

**Phone Number:** 02 9644 7722

**Emergency telephone number:** 13 11 26

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**



GHS08 health hazard

Repr. 1A H360 May damage fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

**Label Elements**

**Signal Word** Danger

**Hazard Statements**

H302+H332 Harmful if swallowed or if inhaled.

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P321 Specific treatment (see on this label).

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

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P302+P352 IF ON SKIN: Wash with plenty of soap and water.





P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

### 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

7440-31-5	tin	50-100%
7439-92-1	lead  Acute Tox. 3, H301;  Repr. 1A, H360; STOT RE 2, H373;  Acute Tox. 4, H332	25-50%
8050-09-7	Rosin  Skin Sens. 1, H317	3-<10%

### 4 . FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

### 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Carbon dioxide, foam, dry chemical and fine water spray.

**Specific Hazards Arising from the Chemical:**

High temperatures may produce heavy metal dust, fumes or vapours, The flux medium will give rise to irritating fumes.

**Special Protective Equipment and Precautions for Fire Fighters:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

### 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Scrape up spilled material and place in a closed container for disposal.

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### 7 . HANDLING AND STORAGE

#### Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

#### Conditions for Safe Storage:

Store in a cool, dry and well ventilated area at temperatures 5-10 °C. Keep container tightly closed when not in use. Keep away from strong oxidising agents.

### 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Exposure Standards (Safe Work Australia):

##### 7440-31-5 tin

NES	Short-term value: 0.2** mg/m <sup>3</sup> Long-term value: 2* 0.1** mg/m <sup>3</sup> *metal, oxide, inorg. comp.;**organic comp.(as Sn)
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##### 7439-92-1 lead

NES	0.15 mg/m <sup>3</sup>
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##### 7440-22-4 Silver

NES	0.1* 0.01** mg/m <sup>3</sup> *metal;**soluble comp. (as Ag)
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#### Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

#### Personal Protective Equipment (PPE):

##### Respiratory Protection:

In case of insufficient ventilation, wear suitable respiratory equipment. See Australian Standards AS/NZS 1715 and 1716 for more information.

##### Skin Protection:

Chemical resistant gloves such as nitrile and protective clothing. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

##### Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

### 9 . PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance:

Form:	Paste
Colour:	Grey
Odour:	Mild
Odour Threshold:	Not determined.
pH-Value:	Not applicable.
Melting point/Melting range:	179 °C
Initial Boiling Point/Boiling Range:	274 °C
Flash Point:	124 °C

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<b>Flammability:</b>	Not determined.
<b>Auto-ignition Temperature:</b>	186 °C
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Relative Density at 20 °C:</b>	4.15 g/cm <sup>3</sup>
<b>Vapour Density:</b>	Heavier than air.
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Insoluble
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>VOC:</b>	<5 %

### 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** No further relevant information available.

**Incompatible Materials:**

Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.  
Reacts with strong oxidants.

**Hazardous Decomposition Products:**

Thermal decomposition can lead to release of irritating gases and vapors.

### 11 . TOXICOLOGICAL INFORMATION

**Toxicity:**

**Acute Health Effects**

**Inhalation:**

Harmful by inhalation.

Fumes evolved at soldering temperatures will irritate the nose, throat and lungs. Prolonged or repeated exposure to flux fumes may result in sensitisation in sensitive workers.

**Skin:** No irritating effect.

**Eye:**

Fumes emitted during soldering may irritate the eyes.

Prolonged or repeated contact may cause eye irritation.

**Ingestion:**

Harmful if swallowed.

Swallowing may cause irritation of mouth, throat and digestive tract, diarrhoea and vomiting.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** Sensitization possible through skin contact.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** Lead is classified by IARC as Group 2B - Possibly carcinogenic to humans.

**Reproductive Toxicity:** May damage fertility or the unborn child.

**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation.

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**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:**

Chronic overexposure to lead may result in damage to the blood forming, nervous, urinary and reproductive systems. Severe lead toxicity will cause sterility, abortion and neonatal mortality and morbidity.

**Existing Conditions Aggravated by Exposure:** No information available

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** No information available**Aquatic toxicity:** No information available**Persistence and Degradability:** The product is not biodegradable.**Bioaccumulative Potential:** No information available**Mobility in Soil:** No information available

## 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:**Wherever possible unwanted solder pastes should be recycled for recovery of metal.  
Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 . TRANSPORT INFORMATION

**UN Number**

ADG, IMDG, IATA Void

**Proper Shipping Name**

ADG, IMDG, IATA Void

**Dangerous Goods Class**

ADG Class: Void

**Packing Group:**

ADG, IMDG, IATA Void

**Marine pollutant:** No

## 15 . REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:**

7440-31-5	tin
7439-92-1	lead
8050-09-7	Rosin

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 6

## 16 . OTHER INFORMATION

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**Prepared by:** MSDS.COM.AU Pty Ltd

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**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

**Disclaimer**

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