

# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 23.08.2013

Revision: 23.08.2013

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name: 60EN 362 5C**

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

**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-<60%
7439-92-1	lead ⚠ Acute Tox. 3, H301; ⚠ Repr. 1A, H360; STOT RE 2, H373; ⚠ Acute Tox. 4, H332	≥30-<40%
8050-09-7	Rosin ⚠ Skin Sens. 1, H317	≥1-<5%

### 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 and dry chemical powder. Do not use water on fires where molten metal is present.

**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:**

Not required.

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.

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

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

### 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. Use only in a well-ventilated area.

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.

### 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.;**org. comp.(as Sn):Sk
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**7439-92-1 lead**

NES	Long-term value: 0.15 mg/m <sup>3</sup>
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**Engineering Contols:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards. Extraction is necessary to remove fumes evolved during reflow.

**Personal Protective Equipment (PPE):****Respiratory Protection:**

A Safe Work Australia approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area. In case of aerosol formation, wearing of appropriate respiratory protection equipment with ABEK P2 filter is recommended. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Chemical resistant gloves (nitrile) gloves 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:**

<b>Form:</b>	Solid
<b>Colour:</b>	Grey
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	Not applicable.
<b>Melting point/Melting range:</b>	183-188 °C
<b>Flash Point:</b>	Not applicable.
<b>Auto-ignition Temperature:</b>	No information available

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**Decomposition Temperature:** No information available**Explosion Limits:****Lower:** Not applicable**Upper:** Not applicable**Vapour Pressure:** Not applicable.**Relative Density at 20 °C:** 8.5 g/cm<sup>3</sup>**Vapour Density:** Not applicable.**Evaporation Rate:** Not applicable.**Solubility in Water:** Insoluble

## 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:** None known.**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.

Heated rosin gives rise to fumes associated with asthma.

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:****Acute Health Effects****Inhalation:**

Harmful if inhaled. Lead fumes evolved at soldering temperatures will irritate the nose, throat and lungs and act as a cumulative poison. Regular blood testing should be considered for workers who are regularly exposed. Prolonged or repeated exposure to flux fumes may result in sensitisation in sensitive workers.

**Skin:**

Molten material is capable of causing severe burns.

May cause sensitization by skin contact.

**Eye:** Fumes emitted during soldering may irritate the eyes.**Ingestion:** Not normally a hazard due to physical form of product. Harmful if ingested.**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.

Lead may cause developmental problems in a foetus.

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

Based on classification principles, the classification criteria are not met.

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

May cause damage to organs through prolonged or repeated exposure.

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

Overexposure to lead may cause headaches, dizziness, abdominal pain, diarrhoea or constipation, nausea, vomiting, blue line on gums, sleep disturbance and a metallic taste in the mouth. May cause damage to kidneys, CNS, heart, immune and digestive system.

**Existing Conditions Aggravated by Exposure:** No information available**12 . ECOLOGICAL INFORMATION****Ecotoxicity:** No information available**Aquatic toxicity:** No information available**Persistence and Degradability:** No information available**Bioaccumulative Potential:** No information available**Mobility in Soil:** No information available**13 . DISPOSAL CONSIDERATIONS****Disposal Methods and Containers:** 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** Not applicable**Proper Shipping Name** Not applicable**Dangerous Goods Class** Not applicable**Packing Group:** Not applicable**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:**

7439-92-1 lead

**16 . OTHER INFORMATION****Creation Date:** 23.08.2013**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

**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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

## **Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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