

Product: LEAD SHEET / INGOTS

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Compilation date: 18/01/2013  
Revision No: 3

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product Name:** EC Name: Lead; EC Number: 231-100-4; CAS Number: 7439-92-1.

### 1.2 Relevant identified uses of the substances or mixture and uses advised against

Lead Sheet: Used for a range of building applications - flat and pitched roofing, cladding, flashings, gutters, parapets and all lead detail work - radiation shielding and sound proofing. Lead Ingots: Used for ballast in boats and as a raw material for melting/casting. [See Annex 1 for further details]

### 1.3. Details of the supplier of the safety data sheet

<b>Company Name:</b> Midland Lead Ltd Kiln Way Woodville Swadlincote Derbyshire DE11 8ED	<b>Tel:</b> +44 (0) 1283 224 555 <b>Fax:</b> +44 (0) 1283 200 568 <b>Email:</b> <a href="mailto:compliance@midlandlead.co.uk">compliance@midlandlead.co.uk</a>
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### 1.4. Emergency telephone number

**Emergency Tel:** +44 (0) 1283 224 555  
(office hours only)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** Lead Metal – General Grade

**Classification under CHIP:** Lead Metal – General Grade

### 2.2. Label Elements

**Label element under CLP:**

**Hazard statements:** None required

**Signal words:** None required

**Hazard pictograms:** None required

**Precautionary statements:** Non required

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## 2.3. Other hazards

PBT:

## Section 3: Composition/Information on ingredients

### 3.2. Mixtures

**Composition:** Lead (Pb) >99.9%; low concentrations of other metals may be present; some as alloying constituents others as impurities.

## Section 4: First Aid Measures

### 4.1. Description of first aid measures

- Skin contact:** Generally, lead cannot be absorbed through the skin. To prevent accidental ingestion or inhalation, wash skin thoroughly with soap and water – especially before eating or drinking
- Eye contact:** Rinse with plenty of clean running water. If irritation persists, seek medical attention
- Ingestion:** Rinse out mouth and give plenty of water to drink. Seek medical attention
- Inhalation:** If lead dust or fume is absorbed through inhalation, move the person to fresh air. Seek medical attention if any of following symptoms persist (metallic taste, fatigue, headache, stomach upsets & reduced appetite).

### 4.2. Most important symptoms and effects, both acute and delayed

- Skin contact:**
- Eye contact:**
- Ingestion:**
- Inhalation:**

### 4.3. Indication of any immediate medical attention and special treatment needed

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Water spray jet; Dry sand.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In case of fires, hazardous combustion gases are formed: Lead fumes; Lead oxide.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Appropriate breathing apparatus may be required. Wear protective clothing.

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## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Ensure adequate ventilation. Avoid fumes and dust. Avoid contact with skin, eyes and clothing.  
Wear protective equipment, gloves and respiratory aids if necessary.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into the drains/surface waters/groundwater.  
In case of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Collect mechanically (preferably in dry condition). Send in suitable containers for recovery or disposal. When picked up, treat material as prescribed under heading "Disposal Considerations".  
Scrap lead can be collected and reused or recycled

### 6.4. Reference to other sections

Reference to other sections:

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure good ventilation of working area. Provide local exhaust ventilation (if necessary), especially if the lead is to be melted or subject to any operation/process that causes it to give off dust or fumes.  
The wearing of safety boots and protective clothing and gloves is recommended when handling lead.  
Ensure that an assessment is made to determine the weight and the safest method of lifting and carrying. Use appropriate lifting equipment where necessary

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Do not store together with foodstuffs.  
Do not store together with animal feedstocks.  
Do not store with acids or alkalis.  
Do not store with combustible materials.

**Suitable packaging:** It is recommended to store lead sheet in a dry area, off the floor on pallets (to prevent deterioration of product quality).

### 7.3. Specific end uses(s)

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## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** The UK Occupational Exposure Limit (OEL) for lead is (Lead in Air - UK) 0.15 mg/m<sup>3</sup> as an 8-hour time-weighted average.

### DNEL/PNEC Values

**DNEL/PNEC:**

### 8.2. Exposure controls

**Engineering measures:** When working with molten lead, fume or dust, provide adequate general and local exhaust ventilation

**General protective and hygienic measures** Do not eat, drink, smoke or sniff whilst working with measures: lead.

Keep away from foodstuffs, beverages and feedstock.

Before breaks - Wash hands and face thoroughly.

At the end of work - remove all contaminated clothing and store separately. Wash hands and face thoroughly.

Do not eat, drink or smoke in areas likely to be contaminated by lead

**Respiratory protection:** Suitable respiratory protective equipment recommended.

In case of brief exposure or low pollution use dust mask or half mask with particle filter P2. Where fumes are present, use a P3 filter.

**Hand protection:** Wear heavy-duty gloves when handling lead. Wash immediately after handling.

**Eye protection:** Wear safety glasses/goggles to prevent contact with molten lead/fume and dust.

**Skin protection:** Suitable protective work clothing

**Occupational Exposure Limits:** **Action Levels:**

**(Lead in Blood UK)** Women of reproductive capacity: 25µg/dl

Young persons (aged 16 & 17): 40µg/dl

Any other employee: 50µg/dl

**Suspension levels:**

Women of reproductive capacity: 30µg/dl

Young persons (aged 16 & 17): 50µg/dl

Any other employee: 60µg/dl

**Additional Information:** For further information, consult the latest edition of the 'Control of Lead at Work Regulations' and the related HSE 'Approved Code of Practice and Guidance'.

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## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Solid, Soft metal

**Colour:** Silver/Grey

**Odour:** None

**Specific Temperatures:** Melting Point/Melting at 327°C.  
Boiling Point/Boiling Range at 1,740°C.  
Fuming Point at >500°C.

**Density / Gravity:** Relative Density 11.32g/cm<sup>3</sup>.

**Solubility:** Insoluble in ordinary solvents and water.

**Additional Properties:** Vapour Pressure 1mm hg at 973°C.

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## Section 10: Stability and reactivity

### 10.1 Reactivity:

**Reactivity:** No dangerous reactions known

### 10.2. Chemical stability

**Chemical stability**

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:**

### 10.4. Conditions to avoid

**Conditions to avoid:**

### 10.5. Incompatible materials

**Materials to avoid:**

### 10.6. Hazardous decomposition products

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicity values:** Lead is a toxic metal and can be hazardous when inhaled or ingested. [See Annex 1 for further details]

### Symptoms/routes of exposure

**Skin contact:** No irritating effect on the skin

**Eye contact:** No irritating effect on the eye

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## Section 12: Ecological information

### 12.1. Toxicity

Ecotoxicity values:

### 12.2. Persistence and degradability

Persistence & degradability:

### 12.3. Bioaccumulative potential

Bioaccumulative potential:

### 12.4. Mobility in soil

Mobility:

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** The PBT and vPvB criteria of Annex XIII to the Regulation do not apply to inorganic substances

### 12.6. Other adverse effects

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Scrap lead sheet/off-cuts/filings should be recovered and reclaimed or recycled. These can be returned to Midland Lead for recycling. Disposal should always be handled in an environmentally responsible manner and in accordance with local regulations and requirements.

NB:

## Section 14: Transport information

**Transport class:** Not classified

## Section 15: Regulatory information

### 15.1. Safety, health and environment regulations/legislation specific for the substance or mixture

**Chemical Safety Assessment** A Chemical Safety Assessment has been carried out for the lead content of this product. (Lead Metal - General Grade)

**Additional Information:** Consult the latest edition of the 'Control of Lead at Work Regulations' and the related HSE 'Approved Code of Practice and Guidance'.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in this Safety Data Sheet. The user's attention is drawn to possible existence of additional provisions which comprise these regulations.

Refer to all applicable national, international and local regulations or provisions.

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## Section 16: Other information

### Other information

**Other information:** The product may only be used according to locally-applicable regulations and guidance. In other circumstances this safety data sheet may be not relevant. Deviation from such regulations and/or guidance is only recommended subject to discussions with the supplier or manufacturer.

For additional information refer to:-

- Annex 1 – 'Identified Uses, Exposure Scenarios & Risk Management'. [Attached].
- The 'Control of Lead at Work Regulations' and related HSE 'Approved Code of Practice and Guidance'.
- ECHA website (highly-detailed information and data).

Search on any of the following references:- EC Name: Lead  
EC Number: 231-100-4  
CAS Number: 7439-92-1

Product Category: 'Lead Metal - General Grade'

#### Information Sources:

As the manufacturer of this product, Midland Lead Manufacturers Ltd. is a member of the 'Lead REACH Consortium', which is administered by the 'International Lead Association – Europe'.

Much of the information used in the preparation of this safety data sheet was provided by the consortium from the data gathered during the preparation of a Chemical Safety Report, as required by the 'REACH Regulations' (Regulation (EC) No 1907/2006).

#### Feedback:

This safety data sheet has been produced using the best data available at the time of publication. Customers and end-users wishing to comment on the content or provide additional information are invited to contact the Compliance Supervisor, via any of the contact methods provided on page 1.

### Phrases used in s.2 and s.3:

#### Legend to abbreviations:

### Legal disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.