1. Description of substance / preparation and company

For starting the reaction for exothermic copper to copper and copper to steel joints.

(Note: this powder is not sold separately from the main powder)

Trade Name

Manufacturer / Supplier
Furse
Wilford Road
Nottingham
United Kingdom
NG2 1EB
Tel: +44 (0) 115 964 3700
Fax: +44 (0) 115 986 0538
Email: elp@furse.com
Contact: Mr. S. Kareer

24 Hour Emergency Telephone No:
CHEMTREC 001 (703) 527-3887

2. Composition / specification of components

Chemical Name: Thermit Welding Powder.

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Name</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7429-90-5</td>
<td>Aluminum</td>
<td>Not &gt; 45%</td>
</tr>
<tr>
<td>1317-38-1</td>
<td>Cuprous Oxide</td>
<td>Not &gt; 25%</td>
</tr>
<tr>
<td>1317-38-0</td>
<td>Cupric Oxide</td>
<td>Not &gt; 25%</td>
</tr>
<tr>
<td>1317-81-9</td>
<td>Iron Oxide</td>
<td>Not &gt; 20%</td>
</tr>
</tbody>
</table>

3. Hazard data

Hazard Description:
Can cause heat burns. Hazardous classification 4.1
4. First aid procedure

**General Advice:**
Remove from exposure, lie down, seek medical advice.

**After Inhalation:**
For inhalation of dust or fumes remove from exposure, provide fresh air, seek medical advice.

**After Skin Contact:**
Standard treatment for burns in event of contact with molten metal, slag or hot equipment. Treat with plenty of cold water. Consult a doctor if required.

**After Eye Contact:**
Rinse thoroughly with plenty of water for at least 15 minutes. Keep eyes wide open whilst rinsing. Consult a doctor if required.

5. Fire fighting procedure

**Suitable Extinguishing Media:**
Dry sand.

**Special protective equipment for fire fighters:**
In case of fire wear full protective flameproof clothing.

**Specific Hazards:**
Heating does not release hazardous gases.

**Specific Methods:**
Cool adjacent containers / pallets with water spray.

6. Procedure in case of unintended liberation

**Methods for Cleaning Up:**
All spilled material may be swept up for disposal.

**Waste Disposal Methods:**
Dispose of in accordance with local regulations.

**Environmental Precautions:**
Non polluting.

7. Handling and storage

**Technical Measures & Precautions:**
Use only in areas provided with appropriate exhaust ventilation.

**Handling and Open Storage Conditions:**
Keep away from excessive heat above 300°C.

**Safe Handling Advice (when being used):**
Wear personal protective equipment such as is used by arc welders.

**Packaging:**
Weight for each box/package:  
Sea Freight 25kgs  
Air Freight 15kgs

8. Exposition limits and personal protective equipment

**Engineering measures to reduce being burnt:**
Treat as for normal arc welding.

**Eye Protection:**
Face shield/safety glasses.

**Respiratory Protection:**
Not required.

**Skin and Body Protection:**
Arc welding protection.

**Hand Protection:**
Heat resistant gloves.
9. Physical and chemical properties

**Form:**
Fine granules.

**Colour:**
Grey

**Odour:**
None

**pH:**
Neutral

**Specific Gravity:**
2.5 Nominal

**Ignition:**
450°C

**Maximum Temperature:**
1800°C

**Solubility:**
Non Soluble

10. Stability and reactivity

**Stability:**
Stable at normal temperature.

**Conditions to Avoid:**
Above 450°C ignition is possible.

**Hazardous Decomposition Products:**
None

11. Toxicological data

**Toxicity:**
Non Toxic

12. Ecological data

**General:**
If powder has entered a water course or sewer pollution may occur.

13. Disposal data

**Waste from residues and unused products:**
Can be land filled when in compliance with local regulations.

**Contaminated packaging:**
Empty containers can be land filled when in compliance with local regulations.

14. Transportation data

**UN 3089 Metal powder, Flammable, N.O.S. 4.1; Packing Group II**

**Hazard Class:**
4.1

**Flammable Solid Inorganic NOS**

**Packaging Group:**
II
15. Instructions
None

16. Miscellaneous

**Recommended Use:**
For starting the reaction for exothermic copper to copper and copper to steel joints.

**Further information:**
Contact the Furse Technical Department.

The data in this Safety Data Sheet has been supplied as required by the CHEMICALS (HAZARD INFORMATION AND PACKAGING) REGULATIONS 1994, as amended, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.

This data sheet does not constitute a user’s assessment of workplace risk as required by the HSW Act, COSHH, Management of Health and Safety at Work legislation, or any other Health and Safety legislation.