

HEALTH & SAFETY DATA SHEET



METAL SECTIONS

1. Identification of Substance and Company

Zinc coated Galvanised steel sections and profiles used to form walls, ceilings and lining systems.

Including:

Metal studs
Metal channels
SBS sections
EMF ceiling sections
ELS ceiling sections
ELS wall sections
Angle sections

Manufacturer:

European Steel Profiles Ltd
Unit 1f, Ridgeway Distribution
Iver
Bucks
SL0 9JQ
Tel: +44 1753 306050
Fax: +44 1753 306059
Email: sales@espdrywall.co.uk
Emergency Tel: +44 7831 281324

2. Composition/Information on Ingredients

Mild steel sections and profiles coated with zinc by hot dip processes. The hot dip coatings may contain up to 0.002% lead or up to 0.12% antimony. The sections and profiles may have a protective film of lubricant.

3. Hazards Identification.

During welding or cutting with heat toxic and irritant fumes may be evolved which can cause metal fume fever. Repeated contact may cause skin problems. Risk of cuts and abrasions from sharp edges of sections or banding.

4. First Aid Measures.

Ingestion: Not relevant.

Inhalation: Effects on inhaling fumes remove person to fresh air.

Skin contact: Rinse with running water then wash with soap. Treat cuts, if required seek immediate medical attention

Eye contact: Irrigate with eye wash bath. Cuts seek immediate medical attention.

Should any symptom persist obtain medical assistance

5. Fire-fighting Measures.

Non-flammable material but see section 3 'Hazards Identification'.

6. Accidental Release Measures.

Sweep up and shovel any off cut or dust into bags..

7. Handling and Storage.

When using hand or power tools eye protection should be worn.

Open edges and cut ends may be sharp gloves and protective clothing should be worn at all times to avoid risk of cuts.

Head protect should be worn when overhead hazards exist and when handling section above head high.

Sections may be secured by straps and bands for transportation these should not be used for lifting. When tension on bands released products may spring apart and could cause injury.

Pallets and packs should be stacked in a safe and stable manner.

Consider risks as required by manual handling operations regulations 1992.

8. Exposure Controls/Personal protection.

Suitable protective clothing and equipment should be worn. When fume or dust is generated, provide adequate ventilation to ensure Occupational Exposure Limits as listed below are not exceeded.

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Current Occupational Exposure Limits.

Substance	15 Min	8 hour TWA
Iron Oxide	10mg/m ³	5mg/m ³
Zinc Oxide	10mg/m ³	5mg/m ³
Chromium metal		0.5 mg/m ³
Chromium (ii)		0.5 mg/m ³
Chromium (iii)		0.5 mg/m ³
Chromium (vi)		0.05 mg/m ³
Lead		0.15 mg/m ³
Antimony		0.5 mg/m ³

9. Physical and chemical properties.

Coating: Melting point in range 419-450 C
Steel: Melting point in range 1450-150 C
Density: around 7.85 kg/dm³ at 20 C

Fire hazard rating:

Ignitability	0
Spread of flame	0
Heat Evolved	0
Smoke developed	0

Non-combustible

10. Stability and Reactivity

The product is stable under normal conditions, when subjected to heat fumes are produced.

11. Toxicological information

Mechanical working, such as dry grinding or machining, will produce dust of the same composition as the coating and base metal. If subjected to elevated temperatures, e.g. during welding or flame cutting, fumes are produced containing oxides of zinc, manganese and iron, and also breakdown products of any protective coating if present.

The potential effects on health include metal fume fever, a short-lasting, self-limiting condition with symptoms similar to influenza. The principal mode of entry into the body is by inhalation and if airborne concentrations are excessive (see

EH40) over long periods of time they may have a long term effect on the health of the worker, primarily affecting the lungs.

Prolonged contact with sheet protection coatings may lead to skin irritation are rarely, in susceptible cases, may lead to dermatitis.

12. Ecological Information

No known harmful effects.

13. Disposal Considerations.

Recycle, or landfill.

14. Transport information.

Not classified as hazardous, no special precautions other than safe loading.

15. Regulatory Information

Steels are articles not substances and as such are not subject to the Chemicals (Hazard Information and packaging) Regulations.

16. Other Information

All products should be installed as directed by the manufacturer.

On site risk assessment should be carried out before use.

This safety data sheet:

- does not replace the users own site risk assessment.
- supersedes all previous issues, and users are cautioned to ensure it is current.
- was compiled using the current safety information supplied by the manufactures of the component materials.
- based on present state of our knowledge and is for the point of view of health and safety requirements.

This data does not guarantee specific properties.