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## Material Safety Data Sheet

**1. Product Identification:** Channels and Angles.

**Use:** Multipurpose Cold Rolled Hot Dip Galv Sections .

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**2. Hazards Identification** Under normal conditions and use these products are stable and non toxic. The products being made of steel can conduct electricity and therefore care should be taken when working near to live power sources.

**3. Composition** Roll formed galvanised steel components, supplied in bundles.

Steel sections are in accordance with the following standard:

European Standard EN 10346                      Hot-dipped galvanised steel.

Hot dipped galvanized steel profiles or components may have residues of low oil content, semi-synthetic coolant and/or mutli-purpose lubricants.

**4. First Aid Measures**                      **Inhalation:** Under normal conditions no hazards expected.

**Skin and Eye Contact:** Wash any loose materials from skin using a recommended skin cleaner. If contact is made with eyes seek medical attention immediately.

**Ingestion:** Under normal conditions no hazard expected.

**5. Fire Fighting Measures** Under normal conditions of use and storage the products are not flammable or hazardous. If involved in a fire potentially toxic dust and/or fumes containing carbon monoxide will be evolved from the coating. In the event of a fire, suitable approved respiratory equipment should be worn.

## 6. Accidental Release Measures

Not applicable.

## 7. Handling and Storage

The products are secured in bundles using straps or bands, which should not be used to lift the product. As these straps and bands are under tension, they can injure peoples eyes or other parts of their body when the tension is released.

The products are transported on pallets or wooden chocks and should be offloaded using a suitable forklift truck.

The products should be stored in suitable racks that will ensure stability.

The product will have sharp edges therefore appropriate protective items should be worn when handling.

Refer to the Manual Handling Operations Regulations 1992 (as amended) for guidance.

## 8. Exposure and Personal Protection Controls

Under normal conditions of storage and use the products are not flammable or hazardous.

When fumes are generated due to envelopment by fire appropriate respiratory protection should be worn.

Occupational exposure limits for the product are details below:

Substance	Type of limit	Reference period	
		8hr TWA <sup>1</sup> (mg m <sup>-3</sup> )	15 min STEL <sup>2</sup> (mg m <sup>-3</sup> )
Iron Oxide, fume (as Fe)	Workplace exposure limit	5	10
Manganese and inorganic compounds	Workplace exposure limit	0.5	-
Zinc oxide, respirable dust/fume <sup>5</sup>	Guidance Value	2 <sup>3</sup>	10
Chromium metal, also chromium (II) and (III) compounds(as Cr)	Workplace exposure limit	0.5	-
Chromium (VI) compounds (as Cr)	Workplace exposure limit	0.05	-
Lead and lead compounds excluding tetraethyl lead (asPb)	Occupational exposure limit	0.15	-
Antimony and its compounds (as Sb)	Workplace exposure limit	0.5	-
Titanium dioxide, Inhalable dust/fume <sup>4</sup>	Workplace exposure limit	10	-
Titanium dioxide, respirable dust/fume <sup>5</sup>	Workplace exposure limit	4	-
Carbon Monoxide	Occupational exposure limit	30ppm	200ppm

### Notes :

1. Time Weighted Average
2. Short Term Exposure Limit
3. This value is given as guidance only, as there is no current UK Occupational Exposure Limit.
4. Total inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract.
5. Respirable dust approximates to the fraction of airborne material that penetrates to the gas exchange region of the lung

**Respiratory Protection:** Under normal conditions of use this is not required. When high levels of dust are generated by mechanical or hand sanding suitable respiratory protective equipment should be worn. AP2 dust mask may be appropriate to EN149, FFP25

**Hand Protection:** Suitable protective gloves should be worn when cutting both the product and the straps or bands.

**Eye Protection:** Suitable eye protection should be worn when using power tools or when cutting straps or bands.

**Skin Protection:** Suitable protective items should be worn to prevent cuts when handling the product or releasing the straps or bands.

Refer to Personal Protective Equipment at Work Regulations 1992 (as amended) for guidance.

## 9. Physical and Chemical Properties.

**Physical Properties:** Light gauge low carbon steel sections.

**Chemical Properties:** As defined in European Standard see Section 2 Composition.

- 10. Stability and Reactivity** The product is stable under normal conditions, but when heated to high temperatures it produces fumes.
- 11. Toxicological Information** Under normal conditions of use there are no known toxicological effects.
- 12. Ecological Information** No known adverse environmental effects.
- 13. Disposal Considerations** Product and packaging should be re-cycled or disposed of at an appropriate disposal centre.
- 14. Transport Information** No special precautions necessary.
- 15. Regulatory Information** No special labeling required.
- 16. Other Information** This material Safety Data Sheet should not be considered a replacement for a workplace risk assessment as required by the Control of Substances Hazardous to Health (COSHH) Regulations 2002. Products should be used in accordance with current Libra Systems recommendations and product literature.

## Reference Information:

Health and Safety at Work Act 1974  
HSE Guidance Notes EH 40/2005 – Workplace Exposure Levels  
Manual Handling Operations Regulations 2002(as amended)  
Personal Protective Equipment at Work Regulations 2002 (as amended)  
The Control of Substances hazardous to Health (COSHH) Regulations 2009  
2009 European Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP)

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