



AYRSHIRE METALS LTD

CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS (COSHH)

- Product and Company name:** Zinc coated steel products, supplied by Ayrshire Metals Ltd.
- Hazard Identification:** When subject to elevated temperatures (welding or burning) fumes may be emitted which can cause respiratory irritation and metal fume fever.
- Composition/Information on Ingredients:** Mild steel, zinc coated by electrolytic or hot dip processes, includes zinc-iron alloy. Hot dip coatings contain up to 0.1% lead. The section may have a thin coating of coolant.
- First Aid Measures:** in the event of injury to skin or eyes seek immediate medical attention.
- Fire Fighting Measures:** Non-flammable material.
- Accidental Release Measures:** Not applicable.
- Handling and Storage:** Caution is to be taken when releasing/removing banding or strapping as tension is released. Suitable protective clothing should be worn, such as face protector shields and cut resistant gloves and use of a safe system of work for removing strapping/banding. Banding/strapping securing products is not to be used for lifting. Products have sharp edges that may cause lacerations and cut resistant gloves should be worn when handling section. Long banded product may require to be lifted from two lifting points.
- Exposure Control and Personal Protection:** If fume or dust is generated provide adequate ventilation ensuring the occupational exposure limits are not exceeded, inhalable dust to be below 5mg/m³. Where exceeded provide local exhaust ventilation and appropriate respiratory protective equipment. Good housekeeping is essential to reduce the risk of dust inhalation.

Compound	Type of Limit	Reference Period 8 hr TWA (15 min)	
Iron oxide, fume (as Fe)	Workplace exposure limit	5 mg/m ³	10 mg/m ³
Chromium metal, also chromium (II) and (III) compounds as (Cr)	Workplace exposure limit	0.5 mg/m ³	-
Chromium (VI) compounds (as Cr)	Workplace exposure limit	0.25 mg/m ³	-
Lead and lead compounds excluding tetraethyl lead (as Pb)	Control of Lead at Work Regulations 2002	0.15 mg/m ³	-

- Physical and Chemical Properties:** Coating melting point 416°C
Steel melting point in range 1425-1540°C
Density ~7.85kg/dm³ at 20°C
- Stability and Reactivity:** product is stable under normal conditions, fume produced under elevated temperatures.
- Toxicological Information:** Mechanical working such as grinding will produce a dust of the same composition as the coating and base metal. Under raised temperatures fumes produced contain oxides of zinc and iron, and will also breakdown any protective coating
- Ecological Information:** No known harmful effects.
- Disposal Considerations:** Reuse recycle or landfill.
- Transport Arrangements:** Ensure bundles are firmly secured to trailers during transportation.
- Regulatory Information:** Coated steel products are articles and not substances. Compliant with the Packaging and Packing waste directive on heavy metal content.
- Other Information:** None.

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