

Material Safety Data Sheet

1. Identification of Preparation and Company

A range of stainless steel/carbon steel masonry support systems, building fixings, restraint fixings and products for reinforced concrete. Products are generally produced from the following grades:

Grade 304 Austenitic (Typically EN 1.4301/1.4307)
Grade 316 Austenitic (Typically EN 1.4401/1.4407)
Grade 2205 Duplex (EN 1.4462)
Grade B500B Reinforcing Bar
Carbon Steels including grades 1045, 600, 709M40, 150M36, St65
Galvanised carbon steel

Manufacturer

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2. Composition/Information on Ingredients

Iron alloy with typical alloy ranges as following:

Cr: 25%Max
Ni : 15% Max
Mo: 4% Max
Mn: 2% Max
Galvanised steel has a zinc coating which may contain up to 0.12% Antimony

Other elements will also be present but are at levels that are not considered hazardous when present as alloying elements in steel.

3. Hazard Classification of Products

There are no hazards to man or environment in the form supplied.

When subjected to elevated temperatures, e.g. during welding or flame cutting, fumes are produced that contain a mix of gases and metal oxides, that can lead to a flu like condition known as 'metal fume fever' and in the case of stainless steels can lead to sensitisation and occupational asthma. Precautions should be taken in the form of fume extraction and/or respiratory protection in such cases.

When zinc is heated it may emit toxic and irritant fumes which can also cause metal fume fever.

Gloves should be worn when handling to prevent possible lacerations from sharp edges. Repeated skin contact with zinc may lead to skin problems.

4. First Aid Measures

Inhalation – not applicable in solid form. Remove from source of any fume or grinding dust. Seek medical attention.

Skin and eye contact – in the event of physical injury to the eyes or skin seek appropriate medical attention.

Ingestion – not applicable in solid form.

5. Fire Fighting Measures

Stainless steels/steels are not combustible.

6. Accidental Release Measures

Not applicable.

7. Handling and Storage

There are no special measures for handling these products. Normal precautions should be taken to prevent physical injury from handling heavy products and products with sharp edges. Care should be taken when releasing banding around bundles/pallets of product – a safe system with appropriate PPE (gloves, eye protection) should be adopted.

8. Exposure Controls/Personal Protection

There are no occupational exposure limits for stainless steel/steel. Wear suitable PPE such as gloves and eye protection when handling the product. Refer to manual handling guidelines when handling.

If the products are welded or heated then appropriate measures should be taken on suitable exposure controls from fume and its constituents. Workplace exposure limits should be referred to.

9. Physical and Chemical Properties

Products are supplied in a wide range of shapes, forms, thicknesses and weights. Stainless steel has grey metallic appearance. Steel has a dark physical appearance and galvanised steel varies from dull grey to bright shiny grey.

10. Stability and Reactivity

Stainless steel/steel is stable and non-reactive under normal ambient atmospheric conditions. Fumes are produced when subject to elevated temperature.

11. Toxicological Data

These products are produced from stainless steel/steel in solid form and therefore are not considered toxic. Further guidance should be sought relating to the toxicology data relating to inhalation of high temperature fume prior to carrying out processes such as welding or flame cutting.

12. Ecological Data

There are no known hazards

13. Disposal Considerations

Stainless steel/steel scrap is valuable and in demand for reprocessing into prime material. There are well established routes for recycling in accordance with waste disposal legislation.

14. Transport Data

No special precautions are required for transportation.

15. Regulatory Information

Stainless steel/steel products in their solid form are not required to be labelled as hazardous.

16. Other Information

Please refer to Ancon Building Products technical literature and product installation guides for further information.

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