

Material Data Sheet

Product:	Mech 416 Soil	Ref:	HFDS 054
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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier: **Mech 416 Soil**

1.2 Relevant Identified use(s) Cast Iron - Mechanically jointed socketless pipes and fittings suitable for above ground soil and waste installations

1.3 Manufacturer / Supplier:
Hargreaves Foundry Drainage
Water Lane, South Parade, Halifax, West Yorkshire, HX3 9HG.
Tel: +44 (0) 1422 330607 Fax: +44 (0) 1422 320349 email: technical@hargreavesfoundry.co.uk

1.4 Emergency Telephone Number: +44 (0) 1422 399113, available during Office Hours 0730hrs - 1630hrs (Mon-Fri)

2. Hazard Identification

According to Regulation No: 1272/2008 (CLP) REACH 1907/2006 & 2015/830
Hazards associated with this product are cuts, abrasions, manual handling and dust / fume when cutting or grinding is used. The dust / fume hazard produced during cutting/grinding may require additional control measures if ventilation is poor and or is likely to exceed the workplace exposure limit, see section 8.2. Minor burns if the "cut" surface is handled before allowing to cool.

2.1 Classification of the substance or mixture: n/a
2.2 Label Elements: CLP - No label elements required
2.3 Other Hazards: According to Regulation (EC) No: 1272/2008 (CLP) this material is not considered hazardous

3. Composition and Information about the product

Castings in Grey or Ductile Cast Iron

4. First Aid Measures

Skin contact: Basic first aid for minor cuts and or grazes.
Eye contact: Wash out with plenty of water and if irritation persists seek medical attention.
Inhalation: Move the exposed person into fresh air, seek medical attention if irritation of respiratory tract persists.

5. Fire-fighting measures

Extinguishing media - Water spray, foam, dry powder or carbon dioxide, will be dependent on actual fire conditions.
The metal in this product do not constitute a fire or explosion risk
Painted product - In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced. Breathing apparatus may be necessary due to possible decomposition products being produced.

6. Accidental release measures

This product is not classified as hazardous under COSHH regulations.
Damaged product can be recycled i.e. Melted and re-cast

7. Handling and storage

Cast iron is a heavy material and supplies / products need to be assessed on receipt and appropriate mechanical and manual handling techniques employed to avoid personnel being subjected to lifting or moving excessive weight. Care needs to be taken when handling to avoid potential trap and crush injuries.
When handling cast iron products sumo cut level 5 gloves or similar should be worn. If there is any drilling, cutting and or grinding of the casting, then it is recommended that personnel wear suitable gloves, eye protectors and a dust mask.
Product should ideally be stored in a clean, dry environment. For product used on "site", then the product should be stored off the ground and protected against mechanical damage and contamination by debris and detritus.

8. Exposure controls/personal protection

8.1 Occupational work exposure limits:

Exposure limits for iron oxide fume as per document EH40/2005 Table 1: List of workplace exposure limits 3rd Edition (Published 2018)

Long term exposure(8-hr TWA reference period)	5 mg.m-3
Short-term exposure(15-min)	10mg.m-3

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8.2 Exposure controls (PPE)

Respiratory Equipment - When drilling, cutting and or grinding, a suitable respirator should be used, especially if the general level of ventilation cannot remove any dust and fume(s) sufficiently from the area. Additional control measures i.e. local LEV may be required if workplace exposure limits could be exceeded.

Hand Protection: For prolonged or repeated skin contact use suitable protective gloves - see section 7;

Eye Protection: Wear approved safety glasses when cutting, drilling or grinding;

Other: Suitable safety boots and overalls are recommended.

9. Physical and chemical properties

Appearance	Cast, shaped product
Colour	
Odour	none
pH	N/A
Boiling Point	N/A
Melting Point	N/A
Flash Point	N/A
Flammability	N/A
Auto Ignition Temperature	N/A
Explosive Properties	N/A

10. Stability and reactivity

Grey & Ductile cast iron in its solid form is stable and non hazardous

11. Toxicological information

This product is not classified as being toxic

Reference section 8.2 for controls measures

12. Ecological information

Grey and Ductile cast iron in its solid form is stable and non hazardous

This product poses no known long term adverse effects in aquatic environments

13. Disposal considerations

Disposal Methods:

Dispose of product / scrap in accordance with local authorities regulations.

This product can be recycled and should be the first choice when considering disposal

14. Transport information

Classification for transportation - None required

15. Regulatory information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture.

EU Regulations: The product does not need to be labelled in accordance with EC directives or national laws

National regulations: Control of Substances Hazardous to Health 2002 (amended); EH40/2005 Workplac exposure limits

16. Other information

The information supplied in this "Safety Data Sheet" is designed only for guidance for the safe use, storage and handling of the product. The information is correct to the best of our knowledge and belief at the date of publication. This information relates only to the specific product designated above.