

Material Safety Datasheet

Harmer SML Soil & Waste

Ref: M002DR

1. Identification of the substrate/preparation and of the company/undertaking

1.1 Identification/Trade name: Harmer SML Soil & Waste

1.2 Manufacturer/Supplier:

Alumasc Water Management Solutions

Station Road, Burton Latimer, Kettering, Northamptonshire, NN15 5JP, United Kingdom

Tel: +44 (0)1744 648400 Fax: +44 (0)1744 648401 E-mail: info@alumascwms.co.uk

1.3 Telephone number in case of emergency:

+44 (0)1744 648400

2. Hazards identification

The major hazards identified for these products are physical and include cuts, abrasions, manual handling. Sparks may be generated from cutting processes. Due to its chemical composition it has low impact resistance.

There is a minor dust and fume hazard produced during cutting of cast iron products, which could cause respiratory problems. There are set Occupational Exposure Standard for iron dust and fume.

Grinding or machining is noisy and ear protection will be necessary over 85dBA.

3. Composition and information about the Components

Grey iron traditionally sand cast and spun products.

Component	CAS Number	Long term exposure limit (mg.m ⁻³)	Short term exposure Limit (mg.m ⁻³)
Iron (as fume) 86.3-96.2%	1309-37-1	5	10
Carbon 3.5%	1333-86-4	3.5	7
Silicone 2.1%	744-21-3	10 Total inhalable dust 4 Respirable dust	-
Manganese 0.5%	7439-96-5	1 (as fume)	3 (as fume)
Nickel 0.02%		1	3
Chromium 0.05%	7440-47-3	0.5	-
Molybdenum 0.05%			

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4. First-aid measures

Exposure Route	Symptom	Treatment
Inhalation	Irritation of respiratory tract	Remove from exposure and into fresh air. If discomfort persists seek medical advice.
Eye contact	Smarting	Wash out with plenty of clean water. If irritation persists seek medical attention

5. Fire-fighting measures

This metal in these products does not constitute a fire hazard. Use extinguishing media appropriate to the surrounding fire conditions.

6. Accidental release measures

Damaged product can be taken up and disposed of to landfill as inert waste if necessary; however, recycling is the preferred method of disposal. The products are not classified as hazardous under COSHH Regulations.

7. Handling and storage

When handling product, due regard should be paid to the risks outlined in the Manual Handling Operations Regulations 1992, appropriate PPE should be used (see section 7). When cutting the product with a saw or angle grinder, appropriate measures to control dust should be used (see section 7). The product should be stored in a safe and stable manner.

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8. Exposure controls/personal protection

8.1 Occupational Exposure Standard (OES)

Iron Oxide, fume (as Fe)		
Long-term exposure limit (8-hour TWA reference period)	5 mgm ⁻³	
Short-term exposure limit (15-min. reference period)	10 mgm ⁻³	

8.2 Personal protective equipment:

Wear suitable protective clothing e.g. overalls, gloves and safety boots to reduce the chances of physical injury while using this product.
Local Exhaust Ventilation, goggles and a dust mask to the relevant European standard (EN149) may be required if a cutting method that liberates dust is used.

9. Physical and chemical properties

Appearance	Shaped metal product
Colour	Silvery grey (coated with paint)
Odour	None
pH	N/A
Boiling Point	2750°
Melting Point	N/A
Flash Point	N/A
Flammability	N/A
Auto Ignition Temperature	N/A
Explosive Properties	Not explosive

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- 10. Stability and reactivity**
Cast iron is stable but may tarnish in moist air.

- 11. Toxicological information**
These products are not classified as toxic.

- 12. Ecological information**
Stable product with no known adverse environmental effects.

- 13. Disposal considerations**
Dispose of this product at any approved solid waste disposal site.
Disposal of the product should be in accordance with any local or national regulations although recycling is preferred.

- 14. Transport information**
Classification for conveyance:- None required.

- 15. Regulatory information**
Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

- 16. Other information**
Health & Safety at Work, etc. Act 1974.
Control of Substances Hazardous to Health (COSHH) Regulations 2002.
HSE Guidance Note EH40 (Occupational Exposure Limits).
Manual Handling Operations Regulations 1992.
St John/Red Cross or any other Authorised Manual on First Aid.

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