



Safety Data Sheet according to Regulation (EC) No 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: SAFTIMETAL
Contains: Chilled Iron Grit
Intended Use: Blast cleaning abrasive for industrial use.
Supplier: Guyson International Ltd.
Snaygill Industrial Estate,
Skipton, North Yorkshire.
BD23 2QR
Tel: +44 (0)1756 799911
E-mail: info@guyson.co.uk
Emergency contact number: +44 (0)1756 799911

2. HAZARDS IDENTIFICATION

Classification: Not classified.

Chilled iron grit does not meet the criteria for classification in accordance with the regulations EC1272/2008. No special conditions are therefore needed. The substance does not meet the criteria for a PBT or PvB substance.

Environment: Not subject to labelling requirements under the CLP regulation (EC) No 1272/2008.

The material is not considered hazardous in normal use but the following potential hazards should be recognised.

Dust – inhalation When blasting of handling dust.

Skin - irritation Susceptible individuals

Fire – explosion. Particles liable to produce a fire hazard are the following: Metal, plastic dust produced when blasting metals coated with paint, rubber, etc.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chilled iron grit is an induction furnace melted chilled iron abrasive. Substances with a concentration higher than 0.1% w/w are listed below:

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ITEM	CONTENT (%)	CAS NO.	EINECS NO.
Fe	95-97%	7439-89-6	231-096-4
C	0.85-1.2%	7440-44-0	231-153-3
Mn	0.35-1.2%	7439-96-5	231-105-1
Si	0.4-1.5%	7440-21-3	231-130-8
Cr	<0.2%	7440-47-3	231-157-5
Ni	<0.2%	7440-02-0	23-111-4

4. FIRST AID MEASURES

The product may cause temporary mechanical irritation to the eyes, nose, throat and lungs.

Eye contact	Remove contact lenses and rinse the eyes with open eye lids for 10 minutes under running water.
Skin contact	Wash off with soap & water.
Inhalation	Provide the affected person with fresh air consult a doctor in case of irritation of the respiratory tract.
Ingestion	Rinse out mouth and drink water. Do NOT induce vomiting.
Advice to physician:	No specific advice. Treat according to symptoms present.

5. FIRE FIGHTING MEASURES

Extinguishing media	<p>The product is non-combustible. Use an extinguishing agent appropriate to the surrounding materials.</p> <p>In the event of Class A fires (packaging); ABC powder, water, foam</p> <p>In the event of Class D fires (metal fire); powders, CO₂</p> <p>Avoid scattering fine particles close to an ignition source.</p>
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Unsuitable extinguishing media	NA
Unusual fire & explosive hazards	<p>This product will not ignite as a dust in its own right in any suspended dust concentrations.</p> <p>Consideration of dust explosion levels must however be considered where a substrate being processed creates a possible explosive dust. In this instance refer to the component/metal/substrate suppliers data pertaining to its respective characteristics.</p>
Specific hazards	None known.
Advice for fire-fighters	Wear self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Avoid breathing dust. Use appropriate personal protective equipment.
Environmental protection	Make sure spills can be contained. Do not allow to enter into surface water or drains. Do not allow to enter into soil / subsoil.
Spill clean-up methods	Ventilate the area thoroughly. Vacuum or sweep up material and place in a suitable container for re-cycling or disposal.
References to other sections	Section 1 - Emergency contact information Section 8 - Personal protective equipment Section 13 - Waste Disposal

7. HANDLING AND STORAGE

Precautions for safe handling	<p>Chilled Iron grit is not classified and no protective measures are needed for safe handling.</p> <p>Prevent formation of dust.</p>
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Use only in well ventilated areas.

Wear personal protective clothing.

Wash hands and face before breaks and after work.

Conditions for safe storage

Keep dry. No other special requirements.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Measures:



Preferred methods of use are either in a blast cabinet with a dust collector or in a closed-circuit blasting system.

If a blast room is used it must have a dust extraction system to keep dust levels below the occupational exposure limits.

The user must know the exact nature of the dust produced during the industrial process for which the abrasive is used, and must take the necessary measures to protect his workers. A qualitative analysis is necessary for blasted parts that may contain any substance with an exposure limit.

Occupational Exposure Limits

Formula	CONTENT (%)	CAS NO.	EINECS NO.	Inhalable	Respirable
Fe	95-97%	7439-89-6	231-096-4	10 mg/m ³	5 mg/m ³
C	0.85-1.2%	7440-44-0	231-153-3	-	-
Mn	0.35-1.2%	7439-96-5	231-105-1	0.5mg/m ³	0.5mg/m ³
Si	0.4-1.5%	7440-21-3	231-130-8	10 mg/m ³	4 mg/m ³
Cr	<0.2%	7440-47-3	231-157-5	0.5mg/m ³	0.5mg/m ³
Ni	<0.2%	7440-02-0	23-111-4	0.5mg/m ³	0.5mg/m ³

Industrial hygiene

Wash hands before breaks and at end of work.

Personal Protective Equipment



Blast cabinet

Hand protection

Gloves - appropriate gauntlets

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Eye protection	Safety glasses or tight-fitting protective goggles. EN 166
Respiratory equipment	Normally, no personal respiratory protection is necessary. A breathing mask is to be worn when handling dust or cleaning out the system. (FFP2 or FFP3)
Body protection	With normal use body protection by half or full-body coverall and boots is required.

Personal Protective Equipment



Blast Room

Blasting operatives should wear a CE marked approved blasting helmet.

Operatives should always wear appropriate gauntlets.

Operatives should wear a purpose designed blasters' suit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid Grey angular particles.
Odour	Odourless.
Explosion hazard	The product is not explosive, however formation of explosive air / dust mixtures is possible.
Melting point (°C)	Approx. 1.500°C
pH-value	NMA (Not meaningfully applicable).
Flash point (°C)	NA
Ignition temperature	NA
Water soluble	NA
Specific gravity	Approx. 3.5 to 4 g/cm ³ .

10. STABILITY AND REACTIVITY

Reactivity	NA.
Chemical stability	Stable under normal conditions



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Possibility of hazardous reactions	Iron oxide dust mixed with some metal dusts can produce an aluminothermic reaction.
Conditions to avoid	Avoid dust formations and contact with water
Incompatible Materials	Water
Hazardous Decomposition Products	The material does not decompose.

11. TOXICOLOGICAL INFORMATION

Known severe toxicity:	None
Known local effects:	None

12. ECOLOGICAL INFORMATION

Lixiviation tests have been carried out on abrasive samples.

The analytical results recorded do not show the presence of specific pollutants or toxins.

13. DISPOSAL CONSIDERATIONS

The abrasive must be disposed of in accordance with national legislation and local regulations.

The material as supplied is classed as a non-hazardous inert solid waste.

Spent abrasive used as a blasting medium must be disposed of under classification 12 01 16 (waste blasting material containing dangerous substances) or 12 01 17 (waste blasting material other than those mentioned in 12 01 16).

The waste producer must determine if hazardous substances in the coating being removed are likely to cause the waste to be hazardous.

14. TRANSPORT INFORMATION

Land Transport (ADR/RID)	Not classified according to Transport Regulations for Hazardous/Dangerous Goods
Marine Transport (IMO/IMD)	Not classified according to Transport Regulations for Hazardous/Dangerous Goods



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Air Transport

Not classified according to Transport Regulations for Hazardous/Dangerous Goods

Transport outside storage areas:

Protect against moisture

15. REGULARITY INFORMATION

The product known as chilled iron grit is subject to national and European laws in effect.

According to existing European Regulations No 1999/45/CE and No 67/548/CEE

Ferrous abrasives are not considered as dangerous preparations.

According to European Regulation No 1907/2006/CE (REACH)

Ferrous abrasives are considered as articles.

The substances contained in ferrous abrasive (in the form of alloys), are not intended to be released intentionally under normal or reasonably foreseeable conditions of use.

This safety data sheet is written up containing appropriate instructions.

16. OTHER INFORMATION

Disclaimer

It remains the users own responsibility to ensure that the information contained is appropriate for the use of this product.

The information contained herein is to the best of our knowledge accurate, however, as circumstances and conditions in which it may be used are beyond our control, we do not accept liability for any loss or damage, however arising, which results directly or indirectly from the use of such information.