



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

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

Product name: FLEXGRAIN  
Contains: Iron Beads  
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](mailto:info@guyson.co.uk)  
Emergency contact number: +44 (0)1756 799911

### 2. HAZARDS IDENTIFICATION

Classification: Not classified.  
Environment: Exposure by of fine powders in large quantities, may produce symptoms called metal fume fever which last 24/48 hours.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

ITEM	CONTENT (%)	CAS NO.	EINECS NO.
Fe	98.50 min.	7439-89-6	231-096-4

Risk phrases None known.

### 4. FIRST AID MEASURES

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

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

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. Obtain medical advice if irritation occurs.
Inhalation	Move the exposed person to fresh air at once. Perform artificial respiration if necessary. Obtain medical attention as soon as possible.
Ingestion	Not normally considered a health hazard. Rinse mouth carefully with water. If any symptoms persist obtain medical advice.
Advice to physician:	No specific advice. Treat according to symptoms present.

### 5. FIRE FIGHTING MEASURES

Extinguishing media	Dry powder extinguisher
Unsuitable extinguishing media	No data available
Unusual fire & explosive hazards	Consideration of dust explosion levels must be considered where the material or substrate being processed creates a possible explosive dust. In this instance refer to the component/metal/substrate suppliers data pertaining to its respective characteristics.
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.


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

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	Section1 - Emergency contact information Section 8 - Personal protective equipment Section 13 - Waste Disposal

### 7. HANDLING AND STORAGE

Precautions for safe handling	Prevent formation of dust.  Use only in well ventilated areas.  Wear personal protective clothing.  Wash hands and face before breaks and after work.
Conditions for safe storage	Covered, dry and naturally ventilated area.  Avoid placing material on the floor.  It is advisable to use material within 6 months from its forwarding date.  Do not stack.

### 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.

#### Occupational Exposure Limits

Formula	CONTENT (%)	CAS NO.	EINECS NO.	Inhalable	Respiratable
Fe	98.50 min.	7439-89-6	231-096-4	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

Industrial hygiene	Wash hands before breaks and at end of work.
Personal Protective Equipment	<b>Blast cabinet</b>

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



Hand protection

Gloves - appropriate gauntlets

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 / black powder, metallic.
Odour	Odourless.
Melting point (°C)	1530
Apparent density	2.5 - 4.0 g/cm <sup>3</sup> .
Specific weight	7.87 g/cm <sup>3</sup> .
Ignition temperature in air (°C)	290 in layer, 320 in cloud.
Reaction temperature in N <sub>2</sub> (°C)	200 in layer.
Minimum explosion concentration in air	120 g/cm <sup>3</sup> .
Spontaneous flammability	No.
Water solubility	No.

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

### 10. STABILITY AND REACTIVITY

Reactivity	NA.
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	Halogens, halides, strong concentrated acids, alkaline oxides.
Conditions to avoid	Avoid dust formations and contact with water
Incompatible Materials	Water
Hazardous Decomposition Products	Acid contact may generate flammable gas.

### 11. TOXICOLOGICAL INFORMATION

<b>General information</b>	No specific test reports and/or data publication available at present.
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### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No specific test reports and/or data publication available at present.
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### 13. DISPOSAL CONSIDERATIONS

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

Disposal procedures according to the Regulation 2014/1357/EC (replacing annex III of the Directive 2008/98/EU) and to the Decision 2014/955/EC amending Decision 2000/532/EC on the list of waste according to the Directive 2008/98/EC of the European Parliament and of the Council.

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

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. Tariff Code 3402 9010
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## Safety Data Sheet according to Regulation (EC) No 1907/2006

Marine Transport (IMO/IMD)	Not classified according to Transport Regulations for Hazardous/Dangerous Goods. Tariff Code 3402 9010
Air Transport	Not classified according to Transport Regulations for Hazardous/Dangerous Goods. Tariff Code 3402 9010
Transport outside storage areas:	Protect against moisture

### 15. REGULARITY INFORMATION

The product known as 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.
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According to European Regulation No 1907/2006/CE (REACH)	Ferrous abrasives are considered as articles.
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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.