

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

Product name: TURBOBEAD & TURBOGRIT

Contains: Cast Steel Shot and Steel 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.

Steel shot and steel grit does not meet the criteria for classification in accordance with the regulations EC1272/2008. No special conditions are therefore needed.

Risk management measures due to the potential occurrence of hazardous dusts during use as an abrasive may be needed. The substance does not meet the criteria for a PBT or vPvB substance

Environment: Not subject to labelling according to Regulation

(EC) No 1272/2008

Dust – inhalation When blasting of handling dust risk management

measures may be needed.

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.

Other risks: The projection of abrasives exposes the operator

to possible skin and eye lesions if no protection is

worn.

Risk of slips/falls due to the presence of abrasive

on the floor.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Steel shot and steel grit is an induction furnace melted cast steel. Substances with a concentration higher than 0.1% w/w are listed below:

ITEM	CONTENT (%)	CAS NO.	EINECS NO.
Iron Fe	95-97%	7439-89-6	231-096-4
Carbon C	0.85-1.2%	7440-44-0	231-153-3
Manganese Mn	0.35-1.2%	7439-96-5	231-105-1
Silicon Si	0.4-1.5%	7440-21-3	231-130-8
Nickel NI	<0.2%	7440-02-0	23-111-4
Copper Cu	<0.2%	7440-50-8	231-159-6

4. FIRST AID MEASURES

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

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 The product is non-combustible.

Use an extinguishing agent appropriate to

the surrounding materials.

In the event of Class A fires (packaging);

ABC powder, water, foam

In the event of Class D fires (metal fire);

powders, CO₂

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Avoid scattering fine particles close to an

ignition source.

Unsuitable extinguishing media NA

Unusual fire & explosive hazards

This product will not ignite 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.

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 Section1 - Emergency contact information

Section 8 - Personal protective equipment

Section 13 - Waste Disposal

7. HANDLING AND STORAGE

Precautions for safe handling Steel bead or grit is not classified and no

protective measures are needed for safe

handling.

Prevent formation of dust.

Use only in well ventilated areas.

Wear personal protective clothing.

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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:

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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	Respiratable
	(%)				
Fe	95-97%	7439-89-6	231-096-4	10 mg/m ³	5 mg/m ³
С	0.85-1.2%	7440-44-0	231-153-3	-	-
Mn	0.35-1.2%	7439-96-5	231-105-1	0.5mg/m³	0.5mg/m³
Si	0.4-1.5%	7440-21-3	231-130-8	10 mg/m ³	4 mg/m ³
NI	<0.2%	7440-02-0	23-111-4	0.5mg/m³	0.5mg/m³
Cu	<0.2%	7440-50-8	231-159-6	0.2mg/m³	

Industrial hygiene

Wash hands before breaks and at end of work.

Personal Protective Equipment

Blast cabinet











Hand protection

Gloves - appropriate gauntlets

Eye protection

Safety glasses or tight-fitting protective goggles. EN 166

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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

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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 Spherical or Angular particles.

Odour Odourless.

Explosion hazard The product is not explosive, however

formation of explosive air / dust mixtures is

possible.

Melting point (°C) 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 5g/cm³.

10. STABILITY AND REACTIVITY

Reactivity NA.

Chemical stability Stable under normal conditions

dusts can produce an aluminothermic

reaction.

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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

Air Transport Not classified according to Transport

Regulations for Hazardous/Dangerous

Goods

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Transport outside storage areas: Protect against moisture

15. REGULARITY INFORMATION

The product known as Steel shot or 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.

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