



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

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

Product name: TURBONOX
Contains: Stainless Steel Shot (Chromium/Nickel).
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.

The hazardous components are not present in sufficient concentration for the product to require classification under EC Directives as the chrome and/or nickel elements are amorphous and not free.

Environment: Labelling according to Regulation (EC) No 1272/2008

The following potential hazards should be recognised.

Dust – inhalation When blasting or 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.
Slips – Spills due to the presence of abrasive on the floor

3. COMPOSITION / INFORMATION ON INGREDIENTS

A water cast stainless steel abrasive media of the 18 - 8 variety.



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

ITEM	CONTENT (%)	CAS NO.	EINECS NO.
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
Sulphur S	0.05% max	7704-34-9	231-722-6
Phosphorus P	0.05% max	7723-14-0	231-76-7
Chromium Cr	2 – 30%	7440-47-3	231-157-5
Nickel Ni	<0.18%	7440-02-0	231-111-4

4. FIRST AID MEASURES

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

Eye contact	Do not rub eyes. 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.
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.
Unsuitable extinguishing media	NA
Unusual fire & explosive hazards	Suspended dust concentrations could be explosive. Consideration of dust explosion levels must Also be considered where a substrate being processed creates a possible explosive

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

	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	Chilled Iron 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. Wash hands and face before breaks and after work.
Conditions for safe storage	Keep dry. No other special requirements.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

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

Control parameters of relevance to industrial settings:

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.

The concentrations of the substances contained in the abrasives that are subject to exposure limits (in particular average exposure limits under the relevant receiving country's environmental regulations).

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	Respirable
Carbon C	0.85-1.2%	7440-44-0	231-153-3	mg/m ³	mg/m ³
Manganese Mn	0.35-1.2%	7439-96-5	231-105-1	0.2 mg/m ³	0.05 mg/m ³
Silicon Si	0.4-1.5%	7440-21-3	231-130-8	10 mg/m ³	4 mg/m ³
Sulphur S	0.05% max	7704-34-9	231-722-6	0.5 mg/m ³	- mg/m ³
Phosphorus P	0.05% max	7723-14-0	231-76-7	0.1 mg/m ³	- mg/m ³
Chromium Cr	2 – 30%	7440-47-3	231-157-5	0.5 mg/m ³	- mg/m ³
Nickel NI	<0.18%	7440-02-0	231-111-4	0.1 mg/m ³	- mg/m ³

Industrial hygiene

Wash hands before breaks and at end of work.

Personal Protective Equipment

Blast cabinet



Hand protection

Gloves - appropriate gauntlets

Eye protection

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

	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 Blue / Grey spherical 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	Insoluble in water
Bulk density:	4.6 kgs/dm ³

10. STABILITY AND REACTIVITY

Reactivity	NA.
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None known

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

Conditions to avoid	Excessive thermal exposure to decomposition points
Incompatible Materials	Water
Hazardous Decomposition Products	None, products change from solids to liquids with no adverse decomposition.

11. TOXICOLOGICAL INFORMATION

Known severe toxicity:	None
Known local effects:	None

12. ECOLOGICAL INFORMATION

Handled correctly this product poses no serious environmental hazard

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



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

Transport outside storage areas:

Protect against moisture

15. REGULARITY INFORMATION

This product is exempt under REACH regulations. The base components of steel and stainless steels are registered.

Steels are manufactured from a large percentage of recycled materials and as such are exempt under direct registration for REACH.

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.