

VULKAN BLAST SHOT TECHNOLOGY

10 Plant Farm Blvd., Unit 2 Brantford, Ontario N3S 7W3

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Material Safety Data Sheet GRITTAL

Revision Date: February 1, 2008

1	Material / Preparation and Company Name	
1.1 1.1.1	Specifications of the material / preparation Type of Product Chromium casting alloy	
1.1.2	Product name GRITTAL, rust-resistant, cast chromium casting abrasives	
1.1.3	Trade name GRITTAL	
1.2 1.2.1	Specifications of the manufacturer / importer / supplier manufacturer / importer / supplier Vulkan Blast Shot Technology	
1.2.2	Company address 10 Plant Farm Blvd., Unit 2, Brantford, Ontario Canada N3S 7W3	
1.2.3.	Place of business / postal address / country code / ZIP code / city 10 Plant Farm Blvd., Unit 2 Brantford, Ontario Canada N3S 7W3	
1.2.4	Telephone 519-753-2226 or 1-800-263-7674 (U.S. and Canada)	
1.2.5	Facsimile 519-759-8472	
1.2.6	For further information, pls. contact Quality Assurance Department	
1.2.7	Emergency number 519-753-2226	
2	Composition / Indication of Ingredients	
2.1	Chemical characterisation of the preparation Iron-chromium-carbon alloy Main components: Cr: 30 % (metallic Chrome) Cr ⁶⁺ : 0,00 % (Chrome (VI), Hexavalent Chrome) Si: <2 % Mn: <2 % C: <3 % Mo: <4 %	

2.2 Hazardous ingredients

This product does not contain any components in concentrations which require a classification as a hazardous substance in accordance with the CE directive.

Carcinogenicity: Not classifiable as to its carcinogenicity to humans

3	Possible Hazards	
	Designation of hazards	During mechanical application (i.e in blasting plants) dust and vapour may occur. The usual precautions should be taken. The statutory limit values for dust and vapour have to be adhered to.
4	First - Aid Measures	
4.1	General Notes	First - aid measures only refer to dust.
4.1.1	Measures in case of inhaling	Ensure sufficient fresh air supply, and consult a physician, if necessary.
4.1.2	Measures in case of eye contact	Rinse your eyes with plenty of water; consult a physician, if necessary.
5	Fire - Fighting Measures	

not applicable (n.a.)

6 Measures to be taken in case of unintended release

not applicable (n.a.)

7 Handling and storage 7.1 Handling

no hazard

7.2 Storage no hazard

8 Restriction of exposure and personal protective equipment

8.1 Additional notes regarding the configuration of technical plants

see. Item 3.1

8.2 Components with workplace - specific limiting values to be controlled

Limiting values are only defined for pure Chromium and pure Manganese, whereas no such limits exist for steel alloys containing such elements.

8.3 Personal protective equipment

Standard equipment for processing of metals. Dust and vapour have to be maintained below the statutory limits by providing adequate suction facilities.

9 Physical and chemical properties

9.1 Appearance

9.1.1 State solid

9.1.2 Colour dark grey, metallic

9.1.3 Odour odourless

9.2	Safety-relevant data	n.a.		
9.2.1	pH - value	n.a.		
9.2.2	Change of state			
9.2.2.1	Boiling point	n.a.		
9.2.2.2	Melting point	1.400 - 1.550 °C		
		(depending on the alloy)		
9.2.3	Flash point	n.a.		
9.2.4	Inflammability	n.a.		
9.2.5	Ignition temperature	n.a.		
9.2.6	Self-inflammability	n.a.		
9.2.7	Fire promoting properties	n.a.		
9.2.8	Explosion limits	n.a.		
9.2.9	Vapour pressure at °C	n.a.		
9.2.10	Density at 20°C	$481 - 506 \text{ lbs/ft}^3$		
9.2.11	Solubilizing properties and distribution	1		
9.2.11.1		insoluble		
9.2.11.2	2 Fat-Solubility	n.a.		
9.2.11.3	B Distribution coefficient	n.a.		
10	Stability and Reactivity			
	stable and non-reactive			
11	Indications concerning toxicolog	y		
	occupational safety affiliated to the Germa	RITTAL has been examined by the BIA (institute of an employers' liability insurance association) with regard to the enic components, and approved as a non-silicogenic material.		
12	Notes regarding ecology			
	not water-soluble, no precautions required	1.		
13	Notes regarding utilization and o	Notes regarding utilization and disposal		
	Waste and scrap constitute valuable mater	rials, which can easily be disposed, since new products of high		
	value can be produced by means of recycl			

14 Notes regarding transport

not classified as hazardous material in the sense of transport regulations.

15 Regulations

15.1 15.1.1	identification according to Ri67/548/EWG Code and hazard designation of the product n.a.
15.1.2	R - clauses n.a.
15.1.3	S - clauses n.a.

16 Other Indications

16.1 References

1) Abrasives test certificate no. 2002/21840/9311 of 05/23/2002 issued by the institute of occupational safety affiliated to the German employers' liability insurance association.

Declaration: The indications made in this Safety Data Sheet are based on the present state of our

know-how and experience. The Safety Data Sheet describes the products in view of safety requirements. The indications do not constitute any guarantee with regard to

product properties and do not create a contractual legal relationship.