



# SAFETY DATA SHEET

## SECTION 1. Product and Business Information

### Substance

Cast Steel Abrasive, shot (spherical) and grit (angular) or shot/grit blends.

### Manufacturer

#### WINOA USA Inc.

1 Abrasive Avenue

Bedford, Virginia 24523 USA

www.wabrasives.com

Emergency phone number

(540) 586-0856

650 Rusholme Road

Welland, Ontario, L3B 5R4 Canada

www.wabrasives.com

Emergency phone number

(905) 735-4691

## SECTION 2. Hazard Identification

**Winoa currently knows of no risk connected to the product.** Cast steel abrasive itself is chemically inert and does not present any risk to people or to the environment.

Risks are dependent upon the user's process and application.

Potential health risks are linked to the exposure to dust, produced by the fragmentation of the abrasives and particles removed from the blasted parts or during surface treatment.

Projection of abrasives exposes the operator to possible skin and eye lesions if no protection is worn.

Risk of slipping/falling due to abrasives spilled on floors.

## SECTION 3. Composition of Substances

**Composition:** Cast Steel Abrasive Shot (SAE J827) and Grit (SAE J1993)

**Chemical composition:** All chemical elements in our abrasives are in alloyed form and not in a free form,

Substance	Chemical Symbol	CAS Number	% Weight
Iron	Fe	7439-89-6	> 95
Carbon	C	7440-44-0	<1.2
Manganese	Mn	7439-96-5	<1.2
Silicon	Si	7440-21-3	<1.2

## SECTION 4. First-aid Measures

**Lungs:** If inhaled, move to fresh air, and if symptoms persist, consult a qualified medical person.

**Eyes:** If shot, grit or dust particles get in the eyes, do not rub, flush eyes with running water for at least 15 minutes and have any remaining particles removed from eyes by a qualified medical person.

**Skin:** Wash with soap and water after contact with dust. If irritation occurs consult a qualified medical person.



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### SECTION 5. Fire-fighting Measures

These products are non-flammable. Select media appropriate for the surrounding materials/area. Fine metal dust that is created as a waste stream and/or contaminants that are removed during the blasting process may pose a small risk of fire or explosion.

### SECTION 6. Accidental Release Measures

Steel abrasives on horizontal surfaces can create slip and fall hazards. It is recommended to keep floors, stairs and work areas clean at all times.

The material may be reused, recycled or disposed of in compliance with local, federal and state regulations.

### SECTION 7. Handling and Storage

Store in a dry place. No safety risk but oxidation and aggregation may occur in the presence of moisture. Handle with care to avoid damage to packaging to avoid spillage.

### SECTION 8. Exposure Control/Personal Protection

There are no specific threshold limit values (TLV) or permissible exposure limits (PEL) for cast steel abrasives. As the type of equipment used, surfaces/parts being processed and the operating conditions are the responsibility of the user, it is the user who must determine the appropriate thresholds, types of controls and the nature of the personal protection required.

**Ventilation:** Adequate ventilation and exhaust of the dust and fumes generated during operations should be provided to reduce the exposure levels.

**Respiratory protection:** NIOSH approved respirator is recommended.

**Eye protection:** Approved safety eye protection (ANSI-Z87) with side shields should be worn.

**Other protective measures:** Protective gloves, work suits and work boots.

### SECTION 9. Physical and Chemical Properties

Appearance:	Spherical or angular steel particles of varied shades/hues of grey.		
Physical state:	Solid, Non-flammable and inert (non-explosive)		
Specific gravity:	> 7 g/cc	Flash Point:	Not applicable
Melting Point:	1371-1482°C	Flammable limits:	Not applicable
Boiling Point:	approx. 3000°C	Auto-ignition temp:	Not applicable
Solubility in water:	Negligible	Evaporation rate:	Not applicable
Odor:	Odorless	Vapor Pressure:	Not applicable
PH:	Not applicable	Vapor density:	Not applicable
Viscosity:	Not applicable	% Volatile:	Not applicable
Partition coefficient:	Not applicable	Decomposition temp:	Not applicable

### SECTION 10. Stability and Reactivity

Under normal storage or working conditions, steel abrasives are stable and do not present any danger of hazardous reactions occurring.



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### SECTION 11. Toxicological Information

No known specific indications or counter indications.

### SECTION 12. Ecological Information

The product, as delivered, does not present any threat to the environment.

This product should be used under the best possible working conditions to avoid releasing it into the environment.

### SECTION 13. Disposal

Disposal or recycling of this product must be done in compliance with local, federal and/or state regulations.

Operating Wastes: Each user must study the problem of waste in relation to their specific activity.

### SECTION 14. Transport

There are no special conditions.

### SECTION 15. Regulations

No regulations apply.

### SECTION 16. Miscellaneous Information

Date of Preparation: May 4, 2015

Prepared in accordance with, OSHA CFR 1910.1200 (USA), NOM-018-STPS-2000 (Mexico), WHIMIS 2015 (Canada).

This Safety Data Sheet is available in English, French and Spanish.

The information contained in this Safety Data Sheet applies only to cast steel abrasive as delivered and its unused state. The information contained in this Safety Data Sheet is our most up to date. The information and was obtained from sources Winoa believes to be reliable however Winoa makes no guarantee, representation or warranty as to the correctness or accuracy of the information. Winoa Inc. does not assume responsibility and disclaims liability for any losses, damages or expense associated with the use of these products.

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