



Sandblast Slags
Foundry Sands
Empire Blast Equipment
Bullard Safety Equipment
Sandblast Hose & Nozzles
Walnut Shells & Corn Cob Grit
Waterjet & Sandblast Garnet
Schmidt Blast Equipment
Silica Free Abrasives
Steel Shot & Grit
Aluminum Oxide
Glass Beads

SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

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

Other Means of Identification: Steel Shot/Steel Grit

Recommended Use: Cleaning, Peening and Etching

Restrictions on Use: None Known

Supplier Identifier: Allredi Blast and Abrasives Canada Inc., 500 Sherman Ave., N., P.O. Box 844 LCD #1
Hamilton, Ontario L8N 3N9 Telephone #1-905-6000 or 1-888-794-5665

Emergency Telephone Number: Same as above

SECTION 2: HAZARD(S) IDENTIFICATION

Classification: Not Classified

Label Elements: None

Other Hazards: 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. Risk of slipping/falling due to spilled abrasives.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Cast Steel Abrasive Shot (SAE J827)
Grit (SAE J1993)

Cast Steel

Chemical Composition: All chemical elements in the abrasives are in alloyed form and not in free form

Chemical Name	CAS No.	% Weight	Other Identifiers
Iron	7439-89-6	>95	Fe
Carbon	7440-44-0	<1.2	C
Manganese	7439-96-5	<1.2	Mn
Silicon	7440-21-3	<1.2	Si

SECTION 4: FIRST AID MEASURES

Inhalation: If inhaled, remove affected person(s) to fresh air. If symptoms persist, contact a qualified medical professional.

Skin Contact: Wash exposed skin with soap and water if irritation occurs.

Eye Contact: Immediately flush eyes thoroughly with plenty of water or an ophthalmic saline solution. Do not rub eyes. Have any remaining particles removed from eyes by qualified medical personnel.

Ingestion: Rinse mouth with water.

Most Important Symptoms and Effects, Acute and Delayed: None known

Immediate Medical Attention and Special Treatment: Seek medical attention should it be required

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Product is not flammable. Use any media that is appropriate for the surrounding materials/area.

Unsuitable Extinguishing Media: None Known.

Specific Hazards Arising from the Product: Fine metal dust created as a waste stream and/or contaminants that are removed during the blasting process may pose a small risk of fire or explosion.

Special Protective Equipment and Precautions for Fire-Fighters: Wear proper protective clothing and use approved breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate clothing and respiratory protection (see Section 8). Steel abrasives on horizontal surfaces can create slip and fall hazards. It is recommended to keep floor stairs and all work areas clean at all times.

Methods and Materials for Containment and Cleaning Up: The material may be reused, recycled or disposed of in compliance with local, provincial, federal and state regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Product should be handled with care to avoid damage to packaging to avoid spillage.

Conditions for Safe Storage: Store in a dry place. There is no safety risk but oxidation and aggregation may occur in the presence of moisture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Control parameters of relevance to industrial settings (occurrence of dusts, mists and fumes) 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 any substrate that may contain any substance with an exposure limit. The concentrations of the substances contained in the spent abrasive are subject to exposure limits (in particular average exposure limits under the relevant receiving country's environmental regulations).

There are no Specific Threshold Limit values (TLV) or Permissible Exposure Limits (PEL) for cast steel abrasives. It is the responsibility of the User who must determine the appropriate thresholds, types of controls and the nature of the personal protection required based on the type of equipment used, surfaces/parts being processed and the operating conditions.

Chemical Name	ACGIH TLV	OSHA PEL
Iron	None Established	None Established
Carbon	10 mg/m ³	15 mg/m ³
Manganese	None Established	0.2 mg/m ³ R, 0.1 mg/m ³ I
Silicon	None Established	15 mg/m ³

R = Respirable

I = Inhalable

Appropriate Engineering Controls

Local Exhaust: Use adequate ventilation and exhaust to control the dust and fumes generated during operations and reduce the exposure levels.

Eye/Face Protection: Wear appropriate eye safety protection (ANZI-Z87) with side shields or a hood with protective lenses

Skin Protection: Use protective gloves, work suits and work boots. Maintain good personal hygiene practices that include washing exposed skin with soap and water and laundering work clothing that becomes dusty.

Respiratory Protection: Use appropriate NIOSH (*National Institute for Occupational Safety and Health*) approved respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey hues; spherical or angular steel particles

Odor: None

Odor Threshold: Not Applicable

pH: Not Applicable

Melting Point / Freezing Point: 1371-1482°C / Not Applicable

Initial Boiling Point / Boiling Range: 3000°C (5432°F) (~5400°F)

Flash Point: Not Applicable

Evaporation Rate: Not Applicable

Flammability (Solid, Gas): Not Determined

Upper and Lower Flammability or Explosive Limit: Not Determined

Vapor Pressure: Not Applicable

Vapor Density (air = 1): Not Applicable

Relative Density (water = 1): Not Determined

Specific Gravity (water = 1): >7 g/cc

Solubility in Water: Negligible

Solubility in Other Liquids: Not Determined

Partition Coefficient, n-Octanol/Water: Not Applicable

Auto-ignition Temperature: Not Applicable

Decomposition Temperature: Not Applicable

Viscosity: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal handling and storage conditions

Reactivity: Not reactive under normal conditions of use

Possibility of Hazardous Reactions: None Known

Conditions to Avoid: None Known

Incompatible Materials : None Known

Hazardous Decomposition Products: None Known

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: None Known

Acute Toxicity: No known oral or dermal

Notes: There are no known specific indications or counter indications.

Skin Corrosion / Irritation: None Known

Serious Eye Damage / Irritation: None Known

STOT (Specific Target Organ Toxicity) Single Exposure: None Known

Aspiration Hazard: None Known

STOT (Specific Target Organ Toxicity) Repeated Exposure: None Known

Respiratory and/or Skin Sensitization: None Known

Carcinogenicity: Not Applicable

Reproductive Toxicity: Not Applicable

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not Applicable

Persistence and Degradability: Not Applicable

Bioaccumulative Potential: Not Applicable

Mobility in Soil: Not Applicable

Other Adverse Effects: This 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 CONSIDERATIONS

Collected dust from blast cleaning or shot peening operations always contains contaminants from the surface of the parts being processed and therefore the dust may possibly be classified as a hazardous waste and as such must be disposed of according to the appropriate local, provincial, federal or state regulations. The User is responsible for disposing of their waste correctly according to their specific activity, according to or in compliance with local, provincial, federal or state regulations.

SECTION 14: TRANSPORT INFORMATION

This product has no special conditions for transportation.

SECTION 15: REGULATORY INFORMATION

There are no applicable regulations.

SECTION 16: OTHER INFORMATION

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Disclaimer: 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 current. The information was obtained from sources believed to be reliable however Allredi Blast and Abrasives Canada Inc. makes no guarantee, representation or warranty as to the correctness or accuracy of the information. Allredi Blast and Abrasives Canada Inc. does not assume responsibility and disclaims liability for any losses, damages or expense associated with the use of these products.