



**ABRASIVE BLASTING SERVICE & SUPPLIES P/L**  
**18 BECKETT AVENUE,**  
**KEILOR EAST, VICTORIA, 3033**  
**PH: (03) 9336 1961      FAX: (03) 9331 6223**  
**WEB SITE: [abss.net.au](http://abss.net.au)**

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## STEEL SHOT & STEEL GRIT

### MATERIAL SAFETY DATA SHEET

#### IDENTIFICATION

Product Name : Cast Steel Shot and Cast Steel Grit  
Molecular Formula : Product is an alloy; minimum 96% Iron  
Supplier Name : Abrasive Blasting Service & Supplies Pty. Ltd.  
Website : [www.abss.net.au](http://www.abss.net.au)

#### PHYSICAL DATA

Appearance : Shot is near spherical. Grit is angular. Both are grey to blue in colour.  
Specific Gravity (Approx.) : >7.4 to 7.6 g/cc (at 20° C)  
Odour : Odourless or slight metallic odour.  
Solubility in Water : N/A  
Boiling Point (Approx.) : 2850 to 3150° C  
Melting Point (Approx.) : 1371 to 1483° C  
Vapour Pressure : N/A  
Vapour Density : N/A

#### HAZARDOUS INGREDIENTS

Chemical Name : Iron  
CAS Number : 1309-37-1  
% Weight : > 96  
OSHA PEL-TWA : 10mg/cu.m as oxide fume  
ACGHI TLV-TWA : 5mg/cu.m as oxide fume

Chemical Name : Manganese  
CAS Number : 7439-96-5  
% Weight : 0.5 to 1.2  
OSHA PEL-TWA : \*C 5mg/cu.m as dust and fume  
ACGHI TLV-TWA : \*C 5mg/cu.m as dust and 1mg/cu.m as fume

Chemical Name : Carbon  
CAS Number : 1333-86-4  
% Weight : 0.8 to 1.2  
OSHA PEL-TWA : Not Established  
ACGHI TLV-TWA : Not Established

Chemical Name : Silicon  
CAS Number : 7440-21-3  
% Weight : 0.4 to 1.2  
OSHA PEL-TWA : 15mg/cu.m as nuisance dust  
ACGHI TLV-TWA : 10mg/cu.m as nuisance dust

\*C means ceiling limit, limits which shall not be exceeded even for a short time.



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#### HAZARDOUS REACTIVITY

Instability : Stable.  
Auto-Ignition : N/A  
Hazardous Decomposition Products : None.  
Hazardous Polymerization : Will not occur.

Prolonged heat and / or high temperatures may lead to loss of hardness and / or formation of iron oxide on the surface. Will oxidize and may go solid if exposed to moisture.

#### FIRE AND EXPLOSION HAZARD DATA

Flashpoint : Not Established.  
Extinguishing Media : Shut off fire with a dry chemical, media or sand to exclude air.  
Explosion Limit : N/A

#### HEALTH HARARD INFORMATION

Steel Shots and Grits are not hazardous by themselves. The equipment / machinery, process conditions and the products generated during blast cleaning and other surface preparation applications may be hazardous. All the state and national regulations that exist on those materials that are considered to be hazardous in use, such as carcinogenic / toxic substances must be adhered to. Adequate instructions are to be given and all precautions must be exercised for all processes in which steel abrasives may be used.

#### HANDLING AND STORAGE PRECAUTIONS

Wear a dust protective mask. Wear protective goggles or eyeglasses. It is recommended that the shot and grit be used at a location where a ventilation unit is installed.

Keep dry to protect the shot and grit from rusting. Make sure the floor can support the weight.

#### FIRST AIR MEASURES

Eyes : Wash with running water.  
Inhalation : Move to a location with fresh air and induce vomiting.  
Ingestion : Consult a physician

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**"RUST NEVER SLEEPS"**



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#### DISPOSAL INFORMATION

##### SPILL OR LEAK

Thoroughly sweep the shot and grit. They can be reused. Spills will cause the floor to become slippery resulting in serious bodily injuries.

##### WASTE DISPOSAL

They can be disposed of as non-hazardous solid waste.

Dust generated from the use of shot and grit for cleaning and shot peening contain impurities removed from the surface of blasted work pieces. If the impurities contain hazardous materials, they must be disposed of in accordance with prevailing regulations and ordinances.

#### OTHER INFORMATION

##### NOTE:

The information contained herein is based on data available to Abrasive Blasting Service & Supplies Pty. Ltd. And from recognised published references. The data are given in good faith and is believed to be useful to the specific material designated.

Since we cannot anticipate or control the many conditions under which this information and our products may be used, it is the user's obligation and responsibility to determine the suitability and safety use of the product.