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Updated: 02/26/07

MSDS SHEET - BAINITE STEEL SHOT

I. Product Identification

Product Name: Steel Shot
Manufacturer's Name: Metaltec
Manufacturer's Address: 41155 Joy Road
Canton, MI 48187
Emergency Phone Number: 800-252-7848

II. Hazardous Ingredients

Name	CAS Number	% Weight	OSHA TWA	ACGIH TWA
Iron	1309-37-1	> 96	10mg/ cm ³ (as nuisance dust)	5 mg/cm ³ (as nuisance dust)
Manganese	74-39-96-5	1.0 - 1.05	*C 5 mg/cm ³ (as dust)	*C 5 mg/cm ³ (as dust)
Carbon	7440-44-0	0.08 - 0.15	None established	None established
Silicon	7440-21-3	0.10 - 0.30	15 mg/cm ³ (as a nuisance)	10 mg/cm ³ (as a nuisance)

*C means ceiling limit shall not be exceeded for even a short time.

III. Physical Data

Solubility in Water: N/A
Boiling Point: 2850 - 3150° C
Vapor Pressure: N/A
Evaporation Rate: N/A
Appearance & Odor: Steel shot is near spherical in shape and is light gray to silver in color.

% Solid by Weight: 100%
Melting Point: 1371 - 1482° C
Vapor Density: N/A
pH: N/A

IV. Fire & Explosion Data

Flash Point: N/A
Flammability Limits: N/A
Auto Ignition Temperature (Solid Iron Exposed to Oxygen): 930° C - Cast Steel Shot will not burn or explode. The solid form of material is not combustible. Fire and explosion hazards are moderate when material is in the form of dust and exposed to heat or flames, chemical reaction, or contact with powerful oxidizers.
Fire Extinguishing Method: Use dry chemicals or sand to exclude air.

V. Health Hazard Data

Threshold Limit: See Section II
Permissible Exposure Limit: See Section II
Carcinogenicity: None of the ingredients listed in NTP, IRAC, or OSHA
Primary Routes of Entry: Inhalation of dust or fume created during use, or dust particles in eyes. Prolonged exposure to manganese dust or fumes can cause metal fever. Chronic overexposure can cause manganese poisoning. Overexposure to dust containing the component elements of cast steel abrasive may cause skin, nose, mouth, and eye irritation.

VI. Emergency & First Aid Data

Eye Contact: Flush with running water to remove particles. Seek additional medical attention if necessary.
Skin Contact: Brush off excess dust, wash area with soap and water.
Inhalation: Remove to fresh air. Seek medical attention.
Ingestion: Seek medical help if large quantities of material have been ingested.

VII. Reactivity Data

Stability: Stable
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: None - Steel shot will wear away at a controlled rate through normal use.

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VIII. Spill & Leak Procedures

Cast Steel shot spilled or leaked onto floors can cause hazardous walking conditions. Spills and leaks should be vacuumed or swept from working areas. When cleaning up large quantities of dust, a NIOSH approved respirator should be worn. Spilled shot can be reclaimed for reuse or disposed of as non-hazardous solid waste. Collected dust from blast cleaning or shot peening operations always contain contaminants from the surface of the parts being processed, and therefore the dust may be classed as a hazardous waste and, as such, must be disposed of according to appropriate Local, State, or Federal regulations.

IX. Special Protection Information

Ventilation: General and local exhaust ventilation should be provided to keep the dust levels below the TLV's shown in Section II.

Respiratory Protection: If dust created by use exceeds the LTV's indicated in Section II, a NIOSH approved respirator should be worn.

Eye Protection: Approved safety glasses with side shields should be worn at all times. Safety eyewash stations should be provided in close proximity to work area.

Other Protection Equipment: None Required.

X. Special Precautions

Handling and Storing Precautions: Store material away from incompatible materials, and keep dust away from sources of ignition. Keep dry to reduce rusting. Observe maximum floor loading limitations.

Other Precautions: The company has no control over this product or its use after it leaves our facility. The company assumes no liability for loss or damage from the proper or improper use of this product. The information presented here has been compiled from sources considered to be reliable and accurate to the best of our knowledge and belief, but is not guaranteed to be so.

IX. Silicosis Warning

⚠ DANGER Breathing dust containing silica will cause silicosis, a fatal lung disease. Breathing dust during blasting operations will cause asbestosis, lead poisoning and/or other serious or fatal diseases. A NIOSH-approved, well-maintained, supplied-air abrasive blasting respirator must be used by anyone blasting, anyone handling or using the abrasive and anyone in the area of the dust. Harmful dust containing toxic material from abrasives or surfaces being blasted can remain suspended in the air for long periods of time after blasting has ceased. Failure to avoid the above danger will result in death or serious injury.

⚠ DANGER You must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, related to your particular work area and environment. Keep unprotected individuals out of the work area. Failure to avoid the above danger will result in death or serious injury.

DISCLAIMER: The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding accuracy. These conditions or methods of handling, storage use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Customers/users of silica must comply with all applicable health and safety laws, regulations and orders, including the OSHA Hazardous Communication Standard.



For more information call:

800-BLAST-IT

Phone: 800-252-7848

Fax: 563-324-6258

e-mail: sales@marcouisa.com

www.marcouisa.com

