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MSDS SHEET - MARTENSITE STEEL SHOT & GRIT

I. Product Identification Trade Name as Labeled: Marco Steel Shot & Grit

II. Hazardous Ingredients	C.A.S. #	Chemical Name	Percent	ACGIH-TLV	OSHA-PEL
	1309-37-1	Iron	> 96	5 mg/m ³ as oxide fume	10 mg/m ³ as oxide fume
	7439-96-5	Manganese	0.35 - 1.2	*C 5 mg/m ³ as dust	*C 5 mg/m ³ as dust
	1333-86-4	Carbon	0.8 - 1.2	none established	none established
	7440-21-3	Silicon	0.4 - 1.5	10 mg/m ³ as nuisance dust	15 mg/m ³ as nuisance dust

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

III. Physical Properties

Vapor Density: N/A
Boiling Point: 2850-3150° C
Evaporation Rate: N/A
Melting Point: 1371-1482° C
PH: N/A
Solubility in Water: N/A
Vapor Pressure: N/A
Percent Solid by Weight: 100%

Appearance & Odor: Shot is near spherical. Grit is angular. Both are light gray to silver in color with slight metallic odor.

IV. Fire & Explosion

Flash Point: N/A
Flammable Limits: N/A
Auto Ignition Temperature: 930° C

Cast steel shot and grit 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 oxidizer.

Fire Extinguishing Materials: Use dry chemicals or sand to exclude air.

V. Health Hazard Information

Threshold Limit Value: See Section II
Carcinogenicity: None of the ingredients listed in NTP, IARC or OSHA
Permissible Exposure Limit: See Section II
Primary Routes of Entry: Inhalation of dust created during use; shot, grit or dust particles in eyes.

Prolonged overexposure to manganese dust or fume can cause metal fever. Chronic overexposure can cause manganese poisoning.

Overexposure to dust containing the component element of cast steel abrasive may cause skin, nose, mouth and eye irritation.

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Flush with running water to remove particulate. Get additional attention by medical personnel.

Skin Contact: Brush off excess dust. Wash area well with soap and water.

Inhalation: Remove to fresh air. Get medical attention.

Ingestion: Seek medical help if large quantities of material have been ingested.

MSDS SHEET - MARCO STEEL SHOT & GRIT

VI. Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: None. Shot and grit will break down into progressively smaller particles during normal use.

VII. Spill/Leak Procedure

Cast steel shot or grit spilled or leaked onto floors can cause hazardous walking conditions. Spills or 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 and grit can be reclaimed for reuse or disposed of as a non-hazardous solid waste. Collected dust from blast cleaning or shot peening operations always contain contaminants from the surface of parts being processed, and therefore dust may be classified as hazardous waste and, as such, must be disposed of according to appropriate Local, State or Federal regulations.

VIII. Special Protection Information

Ventilation: General and local exhaust ventilation should be provided to keep dust levels below TLVs indicated in Section II.

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

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

Other Protection Equipment: None required

IX. 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 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.

X. 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@marcousa.com

www.marcousa.com

