



# ALCHEMY MINERAL

## SAFETY DATA SHEET- STEEL SHOT AND STEEL GRIT

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### IDENTIFICATION

**Product name:** Steel Shot and Steel Grit

**Synonyms:** Steel Abrasives, Shot Peening Media

**Product Use:** Surface Preparation, Shot Peening, Coating Removal

**Restrictions On Use:** No information available.

**Formula:** Ferrous Oxide (FeO) C / Mn / Si / S / P

**Supplier:** Alchemy Mineral LLC  
1101 2nd Ave Unit 4  
Dayton, KY 41074

**Emergency Number:** 859-609-0743

**Fax:** 859-689-1401

**Web:** <https://alchemymineral.com/>

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### HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Skin Sens. 1; **H317** May cause an allergic skin reaction.

Resp. Sens. 1; **H334** May cause allergy or asthma symptoms of breathing difficulties if inhaled.





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Label elements:	Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.
Danger:	<b>H317:</b> May cause an allergic skin reaction. <b>H334:</b> May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Prevention:	<b>P261:</b> Avoid breathing dust / fume. <b>P272:</b> Contaminated work clothing should not be allowed out of the workplace. <b>P280:</b> Wear protective gloves / eye protection / face protection. <b>P281:</b> Use personal protective equipment as required.
Response:	<b>P302+352 IF ON SKIN:</b> Wash with plenty of soap and water. <b>P304+341 IF INHALED:</b> If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. <b>P313:</b> Get medical advice / attention. <b>P321:</b> Specific treatment (see information on this label). <b>P333+313 IF skin irritation or a rash occurs:</b> Get medical advice / attention. <b>P342+311 IF experiencing respiratory symptoms:</b> Call a POISON CENTER or doctor / physician. <b>P363:</b> Wash contaminated clothing before reuse.
Storage:	No GHS storage statements
Disposal:	<b>P501:</b> Dispose of contents / container in accordance with local / national regulations



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## 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Chemical Formula	CAS #	Weight (%)	EINECS No.
Carbon	C	7440-44-0	0.85 - 1.2	231-153-3
Manganese	Mn	7439-96-5	0.62 - 1.2	231-105-1
Silicon	Si	7440-21-3	0.4 - 1.2	231-130-8
Sulphur	S	7704-34-9	0.05 Max	231-722-6
Phosphorus	P	7723-14-0	0.05 Max	231-768-7

## 4 FIRST AID MEASURES

**Inhalation:** If there is gross inhalation of dust causing coughing and shortness of breath, move victim to fresh air. If breathing has stopped, perform artificial respiration. Seek medical attention.

**Ingestion:** If large amounts are swallowed, get medical attention.

**Eye Contact:** Flush eyes with large amounts of water. If irritation persists, get medical attention.

**Skin Contact:** Wash with soap and water. Obtain first aid or medical assistance as needed.

## 5 FIRE-FIGHTING MEASURES

**Flash Point:** Not applicable.

**Extinguishing Media:** Any available.

**Special Fire Fighting Procedures:** None.

**Unusual Fire and Explosion Hazards:** None.

**Protective Equipment:** Firefighters & others exposed wear self-contained breathing apparatus and be aware of other combustible substances involved in any fire.



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## 6 ACCIDENTAL RELEASE MEASURES

Steel Shot and Steel 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 Steel Shot and Steel Grit can be reused or disposed of as a non-hazardous waste. Collected dust from blast cleaning always contain contaminants from the surface of the parts being processed, and therefore the dust may be classified as a hazardous waste and, as such, must be disposed of according to appropriate Local, State or Federal regulations.

## 7 HANDLING AND STORAGE

Avoid breathing dust. Use adequate ventilation and dust collection. Avoid breakage of bagged material and spills of bulk material. Spillage may create slippery conditions. Use good housekeeping to prevent accumulation of dust in work area. Keep dry to avoid rusting and caking. Avoid creation of respirable dust. See OSHA Hazard Communication Standard 29 CFR 1910-94 (Ventilation).

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation:** General and local exhaust ventilation should be provided.

**Respiratory Protection:** 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 the work area.

**Ear Protection:** Wear hearing protection when blasting and in other applications abide by noise regulations dictated by employer/workplace regulations and legislations.

**Skin & Hand Protection:** Prolonged contact with the skin should be avoided and protective clothing such as overalls and PVC or cotton-chrome gloves should always be available. Facemasks should be worn when dust is likely to be created.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 1566 - 1725°C

**Melting Point:** 1371 - 1482°C

**Solubility in Water:** Insoluble.

**Appearance and Odor:** Gray. Near-spherical or angular particles. Odorless.

**Vapor Density:** N/A

**Vapor Pressure:** N/A

**Specific Gravity (H<sub>2</sub>O = 1):** 7.6

**Evaporation rate:** N/A



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## 10 STABILITY AND REACTIVITY

**Stability:** Stable under normal ambient conditions of temperature and pressure.

**Materials to Avoid:** None.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** None.

**Hazardous Decomposition Products:** None.

## 11 TOXICOLOGICAL INFORMATION

**Primary Routes of Entry:** Inhalation of dust or fumes created during use, or dust particulate in eyes.

Overexposure to dust containing the component elements of Steel Shot or Steel Grit may cause skin, nose, mouth, and eye irritation.

## 12 ECOLOGICAL INFORMATION

**Hazardous Decomposition Products:** None.

When handled correctly, these products pose no serious environmental hazard.

## 13 DISPOSAL CONSIDERATIONS

Follow Local, State and Federal guidelines for disposal of inert solid waste, e.g. for landfill.

**Disposal methods:** All wastes should be evaluated according to the procedures required by the latest edition of department of water affairs and forestry's minimum requirements for the handling, classification and disposal of hazardous waste and disposed if in an appropriate landfill. The material itself is expected to be non-hazardous but during use it may become contaminated.

**Disposal of pack:** Empty packaging may be disposed to a permitted general waste landfill.

**UN Number:** Not regulated.

**IMDG-Class:** Not regulated.

**SABS 0228:** Not regulated.

Material contaminated or reduced to dust in use may need special handling and disposal. It is the responsibility of the end user to evaluate, classify, and dispose of material after use.



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## 14 TRANSPORT INFORMATION

No special precaution necessary. It is recommended to keep bags closed and dry. Bulk loads should be covered to prevent dust generation and moisture incursion.

## 15 REGULATORY INFORMATION

No known additional regulations for this product.

**UN Number:** NA

**Substance Identity NO.:** NA

**IMDG-Class:** NA

**IMDG Packaging Group:** Solid non-corrosive.

**Risk phrases:** Harmful if swallowed.

## 16 KEY

**ACGIH:** American Conference of Governmental Industrial Hygienists

**CAS:** Chemical Abstracts Service

**DOT:** Department of Transportation

**IARC:** International Agency for Research on Cancer

**MSHA:** Mine Safety and Health Administration

**NFPA:** National Fire Protection Association

**NIOSH:** National Institute for Occupational Safety and Health

**NTP:** National Toxicology Program

**OSHA:** Occupational Safety and Health Administration

**PEL:** Permissible Exposure Limit

**SARA:** Superfund Amendment and Reauthorization Act

**TLV:** Threshold Limit Value

**TSCA:** Toxic Substance Control Act



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## NOTICE

This SDS summarizes, to our best knowledge at the date of issue, the chemical, health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Alchemy Mineral LLC cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Alchemy Mineral LLC at the contact details on page 1.

Alchemy Mineral LLC's responsibility for the material as sold is subject to its terms and conditions of sale, a copy of which is available upon request.