



SAFETY DATA SHEET

Revision: 05/17/17 Replaces version: 07/28/15

SECTION 1- IDENTIFICATION OF SUBSTANCE

Classification: STAINLESS STEEL SHOT

Product(s) Name: **SSG-XXX**, Stainless Steel Grit CHROMIUM, CrH, CrM, CrLN, CrS

Family: Inert Material/ Metal

Product Use: Blast Cleaning; Stone Working Industry

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SECTION 2- HAZARDS IDENTIFICATION

Not hazardous in solid form (GHS Classification – not classified).

Cr: irritating – dermatitis; Exposure by inhalation of fine powders in large quantities, may produce symptoms called metal fume fever which last 24/48 hours.

SECTION 3- COMPOSITION/ INFORMATION ON INGREDIENTS

Fe > 80%; Iron-based smelted alloy. The stated components are in solid solution, not free.

<u>Identity</u>	<u>CAS No.</u>	<u>OSHA PEL</u> <u>mg/ m³</u>	<u>ACGIH- TLV</u> <u>mg/ m³</u>	<u>% By Weight</u>
Fe (Iron)	7439-89-6	5 (dust)	10 (FeO ₃ dust)	>80
Si (Silicon)	7440-21-3	15 (dust) 5 (resp.)	10 (dust) 5 (resp.)	<20
Cr	7440-47-3	00.5 (fume)	0.5 (fume)	<3

SECTION 4- FIRST AID MEASURES

First-aid measures after inhalation: Dust from processing: Allow victim to breathe fresh air. Allow the victim to rest. If feel unwell, seek medical attention.

First-aid measures after skin contact: Wash hands with water and soap. Dust from processing: Wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: Unlikely route of exposure. Dust from processing: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion: Unlikely route of exposure. Dust from processing: Ingestion is not considered a potential route of exposure. In case of accidental intake, rinse mouth.

SECTION 5- FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Dry earth, sand, or Class D media ONLY. Do not use halogenated extinguishing media.

Unsuitable extinguishing media: Do not use water or foam.

Fire Fighting Procedures: Wear full protective clothing. Use firefighting materials and procedures adapted to the immediate environment.

Special hazards arising from the substance or mixture

Fire hazard: Fine dust from processing may be readily ignitable. Flammable solid. May form combustible dust concentrations in air.

Explosion hazard: Avoid generation of dust; fine dust dispersed in air in sufficient concentration, and in the presence of an ignition source is a potential dust explosion hazards.

Reactivity: This product is not reactive as supplied. Dust or fine particles are violently reactive to strong oxidizers with considerable heat generation.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General measures: Dust and fumes from processing: Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to Section 8: "Exposure controls/personal protection".

Environmental precautions

Keep product away from sewers, surface and underground waters and from the ground.

Methods and material for containment and cleaning up

For containment: In solid form, recycle unused/ scrap product if possible.

Methods for cleaning up: Recover mechanically the product. No special precautions for large product fragments. For dust cleanup use protective equipment. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Avoid dispersal of dust in the air (i.e. cleaning dust surfaces with compressed air)..

Other information:

Shot spilled or leaked onto floors can create hazardous walking conditions. No special precautions need to be followed when cleaning up spills or leaks of shot or grit. When cleaning up large quantities of dust, a NIOSH approved respirator should be used. 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 contains contaminants from the surfaces 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.

SECTION 7- HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe handling: Wear appropriate personal protective equipment. In case of formation of dust during processing, routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixture operations. Provide adequate precautions, such as electrical grounding and bonding or inert atmospheres.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store covered, dry and naturally ventilated area. Avoid placing material on the floor. Do not stack more than 3 pallets high (for products packed in bags). Do not stack more than 1 pallet high (for products packed in big-bags).

Incompatible materials: Strong acids and alkalis. Strong oxidizers.

SECTION 8- EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure controls

Appropriate engineering controls: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

In case of formation of dust during processing: It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust dusts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area. Use only appropriately classified electrical equipment and powered industrial trucks.

Personal protective equipment

Hand protection: Protective gloves. Leather or equivalent.

Eye protection: Safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Dust from processing: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. (N-95 particulate respirator at minimum) Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Physical appearance/ form: Metallic Gray. Odorless. Solid (Granule).

Melting point: 804 – 838 °F (1480 – 1540 °C) Boiling point: 3733°F (2056°C)

Flash Point: N/A NFPA fire code: 0 Specific gravity: 7.6 – 7.8 g/cm³ @20°C

pH: N/A Water solubility: N/A Vapor pressure/ density: 2.5 – 4.5 mg/cm³

SECTION 10- STABILITY AND REACTIVITY

Stability: Material is stable and non- reactive under normal condition of use, storage, and transport.

Conditions to avoid: STORE INDOORS, KEEP DRY. Keep Away from acids and strong oxidizers.

Possibility of hazardous reactions: Heat generation and release of flammable hydrogen gas may occur when exposed to water, strong oxidizers, and acids.

SECTION 11- TOXOLOGICAL INFORMATION

Aluminum in solid form does not present any acute health effects.

SECTION 12- ECOLOGICAL INFORMATION

Shot in solid form, do not present any environmental hazard.

Exotoxicity: Not demonstrated using OECD protocol. Biodegradability: N/A

SECTION 13- DISPOSAL CONSIDERATIONS

Reuse or recycle material whenever possible. Recycle or dispose of material in accordance to local, state, or federal regulations.

SECTION 14- TRANSPORT INFORMATION

There are no special handling/ shipping procedures for this product.

SECTION 15- REGULATORY INFORMATION

USA: Section 313: This product contains no chemicals in concentrations subject to reporting requirements of section 313 of the Emergency Planning and Community Right- To- Know Act, (EPCRA Title III of SARA) and 40 CFR 372.

EU: Warning Symbol(s); Risk Phrase(s); Safety Phrase(s). N/A

SECTION 16- OTHER INFORMATION

This Safety Data Sheet is in accordance with-

OSHA (USA), WHMIS (Canada), and EC Directive 2001/58/EC (Europe)

Abbreviations and acronyms:

ACGIH (American Conference of Government Industrial Hygienists).

ATE - acute toxicity estimate.

CAS - Chemical Abstracts Service.

GHS - Globally Harmonized System.

TWA- Time Weighted Average.

PEL- Permissible Exposure Level.

STEL- Short-Term Exposure Limit.

OSHA - Occupational Safety and Health Administration.

IARC-International Agency for Research on Cancer.

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