

SDS - STEEL SHOT & STEEL GRIT**PRODUCT: STEEL SHOT & STEEL GRIT****SECTION I: MATERIAL IDENTIFICATION**

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Product: **Steel Shot and Steel Grit**

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SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**2.1 Associated with the product itself**

The steel abrasives as such are not dangerous. The product is chemically inert and do not present any specific risk to people or environment and it doesn't contain any radioactive elements. Compounds, processing conditions and products that are created during blasting and other surface treatment methods can be hazardous. The proper instructions must be issued and all precautions for working with steel shot and grit must be met.

2.2 Associated with the use of the product**Intoxication**

Health risks are linked to exposure to dust. Dust is produced by the fragmentation of the abrasives and particles removed from the blasted parts

Fire / explosion

Particles that might cause a fire / explosion hazard are related to the creation of all forms of dust.

2.3 Other risks

- Noise
- Risk of falling due to abrasives on the ground
- Projection of abrasives exposes the operator to possible skin and eye lesions if no protection is worn.

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

Composition Cast Steel

Chemical Composition:

Substance	C.A.S. NO	%W	Listed as Carcinogen
Fe-Iron	1309-37-1	>97	No
C-Carbon	1333-86-4	0.85-1.20	No
Mn-Manganese	7439-96-5	0.60-1.20	No
i-Silicon	7440-21-3	0.50-1.20	No
S-Sulfur		≤0.05	
P-phosphorus		≤0.04	

TLV/PEL

IRON	N/A
CARBON	3.5NG/N3
MANGANESE	
SILICON	10(E)

SECTION IV: FIRST AID MEASURES

General note : In all cases of doubt, or when symptoms persist, seek medical advice

Eye contact : Do not rub. Wash the eyes out under clean running water. If some kind of foreign object has come in the eye, get medical help to remove it

Inhalation : Get outside into fresh air. Remain calm and stay warm. Get medical help

Skin abrasion : Wash thoroughly using soap and water. Get medical help.

Mouth : Rinse out using clean water. Get medical help.

Effects of Overexposure : Can cause eye infection if embedded in eye and not treated. Inhalation of dusts may lead to lung irritation. Get medical help.

SECTION V: FIRE FIGHTING MEASURES

Extinguishing media / method

- In case of a Class A fire (packaging): ABC powder, water, foam
- In case of a Class D fire (metal fire): Powders, CO2

Avoid scattering fine particles close to an ignition source.

Flashpoint:	N/A
Flammable Limits:	None
Specific Fire Fighting Procedures:	Not combustible when used as an abrasive
Unusual Fire and Explosion Hazards:	Very fine dust can burn when exposed to flame

SECTION VI: ACCIDENTAL RELEASE MEASURES

It can create a slip-and-fall hazard. Quickly clean the area with a vacuum cleaner or a magnetic brush to reduce the risk of falling. Disposing and recycling of this product must be carried out in accordance with the usual and customary guidelines for all other types of metal products.

SECTION VII: HANDLING AND WAREHOUSING

Special care must be exercised to prevent product leakage, which can cause slip-and-fall accidents. Exercise caution when removing the tension straps that are part of the wholesale pallet deliveries.

SECTION VIII: EXPOSURE CONTROL AND INDIVIDUAL MEASURES

8.1 Exposure control

The user must know the exact nature of the dust produced during the industrial process for which the abrasive is used and must take the necessary measures to protect his workers. A metrological study is necessary for blasted parts that may contain any substance with an exposure limit.

8.2 Personal protective equipment

The nature of the personal protection required during blasting depends on the type of equipment used. The person using the personal protection is responsible for determining the best possible protective clothing for the operator.

- A helmet with its own air supply
- An overall
- Safety shoes
- Gloves
- Ear protection

SECTION IX: PHYSICAL DATA

Specific Gravity (Water=1)	:	> 7.0
Melting Point	:	1400-1477 °C
Boiling Point	:	2847-3100 °C
Vapor Pressure (mm Hg)	:	Very low - not hazardous at room (ambient) temperature
Solubility in Water	:	insoluble in water
Flash point	:	Not applicable
Explosiveness	:	Not applicable
Odor	:	None

SECTION X: STABILITY AND REACTIVITY

Under normal working conditions, the product is stable and does not present any danger for hazardous reactions to occur

Known decomposition of the product	:	none
Stability during storage	:	no safety risk but oxidation and aggregation in the presence of moisture.
Dangerous reaction	:	Iron oxide dust mixed with some metal dusts can produce an aluminothermic reaction.

SECTION XI: TOXICOLOGICAL INFORMATION

No specific indication or counter indications.

SECTION XII: ENVIRONMENTAL INFORMATION

The product, as delivered, does not present any type of threat to the environment. If this product is exposed to atmospheric agents, however, there is the possibility that elements may be released that could be toxic.

Use this product under the best possible working conditions and avoid releasing it into the environment. Make sure that any leftover contents are disposed of properly.

SECTION XII: DISPOSAL CONSIDERATION

Operating waste; Dust and used abrasives may contain pollutants resulting from the industrial process. Each user must study the problem of waste in relation to his specific activity, in contact with specialized organizations and authorities.

SECTION XIV: TRANSPORT

There are no special conditions. The usual and customary procedures should be followed. The product should be protected against moisture.

SECTION XV: REGULATION

- According to existing European Regulations N° 1999/45/CE and N° 67/548/CEE, steel abrasives are not considered as dangerous preparations.
- According to European Regulation N° 1907/2006/CE (REACH), steel abrasives are considered as articles.

The substances contained in steel abrasive (in the form of alloys), are not intended to be released intentionally under normal or reasonably foreseeable conditions of use.

In accordance with articles 3.3; 7.1; 7.2; 7.3; 33;57; 59 and all related documents to the present regulation, and in order to exclude all possibility of human and environmental exposure to these substances under normal or reasonably foreseeable conditions of use including waste elimination, this technical data sheet containing appropriate instructions was issued.

Consequently, Maxhot considers that the substances contained in the steel abrasives are not subject to registration according to the existing REACH regulation.

SECTION XVI: OTHER INFORMATION

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warrant, expressed or implied regarding accuracy or correctness. The conditions or methods of handling, storage use and disposal of the products 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.