

SAFETY DATA SHEET

Product Name: Steel grit, steel shot, steel cut wire

Product Description: steel particles

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION, AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation

1.2 Other means of identification

1.3 Use of the substance / preparation – abrasive or peening operations

1.4 Company Name: AGSCO Corporation Emergency number: 847-520-4455
Address: 160 West Hintz Road Information number: 847-520-4455
Wheeling Illinois 60090 Date prepared: JANUARY 2015

2. IDENTIFICATION OF HAZARDS

2.1. Connected with the product itself: No known risk

2.2. Connected with the use of the product:

2.2.1. Intoxication:

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

2.2.2. Fire - Explosion:

- Particles liable to produce a fire hazard are the following:
- Metal dust.
- Plastic dust.
- Dust produced when blasting metals coated with paint, rubber, etc...

2.2.3. Other risks:

- The projection of abrasives exposes the operator to possible skin and eye lesions if no protection is worn.
- Noise.
- Risk of falling due to the presence of abrasives on the floor.

3. COMPOSITION

Substances listed below with a concentration higher than 0.1 % weight by weight:

Substances	Chemical Symbol	EINECS N°	CAS N°	Labelling according to UE regulations
Aluminum	Al	231-072-3	7429-90-5	F : R10/15
Carbon	C	231-153-3	7440-44-0	
Chromium	Cr	231-157-5	7440-47-3	
Copper	Cu	231-159-6	7440-50-8	
Iron	Fe	231-096-4	7439-89-6	
Manganese	Mn	231-105-1	7439-96-5	
Nickel	Ni	231-111-4	7440-02-0	Xn : R40/43

SAFETY DATA SHEET

Silicon	Si	231-130-8	7440-21-3	
---------	----	-----------	-----------	--

All the chemical elements in our abrasives come in an alloyed form and not in a free form.

4. FIRST AID

In the event of contact with the eyes:

- Do not rub.
- Rinse thoroughly with water.
- Consult an ophthalmologist if the irritation persists.
- The user must determine what appropriate measures should be taken, depending on the type of dust produced by his industrial process.

5. FIRE-FIGHTING MEASURES

Extinction Method:

- In the event of Class A fires (packaging): ABC powder, water, foam.
- In the event of Class D fires (metal fire): powders, CO₂.

Avoid scattering fine particles close to an ignition source.

6. ACCIDENTAL RELEASE MEASURES

Quickly clean the area with a vacuum cleaner or a magnetic brush to reduce the risk of falling.

7. HANDLING AND STORAGE

7.1. Prevention of worker exposure:

- Blasting can be carried out in automatic booths, with the operator outside. Whenever technically possible, this solution is always preferable to having the operator inside the booth.
- Ventilation arrangements must be such that the booth environment is protected and the booth cleaned as quickly as possible after blasting operations cease.
- During air blasting operations, the operator must wear personal protective equipment.

7.2. Prevention of fire and explosion risks:

When there is a possible risk of fire or explosion, special precautions must be taken in the design and construction of the blasting installation. Furthermore, some procedures must be followed when operating the installation and during maintenance operations.

7.3. Precautions when handling the product:

Not applicable.

7.4. Recommendations for use:

- Metal spraying: blasting and metal spraying operations must not be carried out in the same booth, as this increases the risk of fire.
- Lighting: lighting for blasting booths must be carefully studied.

To check the quality of blasting, the operator must be able to make an accurate visual assessment of the efficiency of his work.

SAFETY DATA SHEET

7.5. Storage:

- In a dry place.
- No known incompatible substance.
- Keep the product tightly sealed, designed to provide water- tightness.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

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 workers. A metrological study is necessary for blasted parts that may contain any substance with an exposure limit.

8.2. Personal protective equipment:

For lack of collective protective equipment, during air blasting, the plant manager must provide each exposed worker with the following:

- A hood with its own air supply
- An overall with draw strings at the neck, wrists and ankles
- Safety shoes
- Ear protection
- Gloves

9 . PHYSICAL AND CHEMICAL PROPERTIES

• Physical state: solid	• Flash point: not applicable
• Color: grey-black	• Explosiveness: not applicable
• Odor: none	• Melting point: ~ 1500 °C
• Density: 3 - 5 t/m3	• Solubility: insoluble in water

10. STABILITY AND REACTIVITY

- Known decomposition 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.

11. TOXICOLOGICAL INFORMATION

- Known severe toxicity: none.
- Known local effects: none.

12. ECOTOXICOLOGICAL INFORMATION

Lixiviation tests have been carried out on abrasives' samples. The analytical results recorded do not show the presence of specific pollutants or toxins.

13. DISPOSAL CONSIDERATIONS

- Operating Waste: dust and used abrasives may contain pollutants resulting from the industrial

SAFETY DATA SHEET

process. Each user must study the problem of waste in relation to his specific activity, in contact with specialized organizations.

- Packaging is completely recyclable.

• 14. TRANSPORTATION INFORMATION

- International regulations (ADR, IMDG, OACI): not concerned.
- Transport outside storage areas: protect against moisture.
- Weight: for pallets and drums: 750 - 1500 kg
for big bags: 1000, 1500 or 2000 kgs.

15. REGULATORY INFORMATION

Abrasives are subject to National and European laws in effect.

- 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. This SDS is 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. The substances contained in the steel abrasives are not subject to registration according to the existing REACH regulation.

16. OTHER INFORMATION

The information contained in this file is based on our level of knowledge to date. Consequently, any person or organization wishing to make any comments should inform us. Moreover, the information provided is not exhaustive. The user must therefore be fully acquainted.