

# AIRBLAST

*The Art of Powerful Cleaning...*



## SAFETY DATA SHEET

SDS

High Carbon Steel Abrasives  
Rev B / January 5<sup>th</sup>, 2015

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### I IDENTIFICATION OF THE PRODUCT AND THE COMPANY

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#### 1.1 Identification of the product

Product Name: High Carbon Steel Abrasives (shot and grit)

#### 1.2 Details of the supplier of the Safety datasheet

Airblast-Abrasives B.V.  
Nijverheidsplein 2A  
1704 RB Heerhugowaard  
The Netherlands

Ph. +31 7257 11569  
Mail [info@airblast-abrasives.com](mailto:info@airblast-abrasives.com)

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### II IDENTIFICATION OF HAZARDS

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#### 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.

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## III COMPOSITION OF SUBSTANCES

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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                   |
| Si-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)    |

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## IV FIRST AID MEASURES

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|                           |   |
|---------------------------|---|
| 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 say 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 no treat. Inhalation of dusts may lead to lung irritation. Get medical help.                 |

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**V FIRE FIGHTING MEASURES**

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*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 |

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**VI ACCIDENTAL RELEASE MEASURES**

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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.

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**VII HANDLING AND WAREHOUSING**

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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.

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**VIII EXPOSURE CONTROLS / INDIVIDUAL PROTECTION**

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**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

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**IX PHYSICAL DATA**

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|                            |   |  |
|----------------------------|---|--|
| 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   |

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**X STABILITY AND REACTIVITY**

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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. |

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**XI TOXICOLOGICAL INFORMATION**

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No specific indication or counter indications.

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**XII ENVIRONMENTAL INFORMATION**

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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.

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**XIII DISPOSAL CONSIDERATIONS**

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|                 |   |  |
|-----------------|---|--|
| 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 organisations and authorities. |
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**XVI TRANSPORT**

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

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**XV REGULATION**

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- According to existing Directives N° 1999/45/EC & N° 67/548/EEC under European Regulations N° 1272/2008, steel abrasives are not considered as dangerous preparations.
- According to European Regulation N° 453/2010 amending 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, Airblast considers that the substances contained in the steel abrasives are not subject to registration according to the existing REACH regulation.

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**XVI OTHER INFORMATION**

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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.

**AIRBLAST-ABRASIVES B.V.**

**Januari 2015**