

# Material safety data sheet: steel abrasives

## Index of data sheet

1. Identification of substance or preparation and of the company/ undertaking
2. Composition/information on ingredients
3. Hazards identification
4. First aid measures
5. Fire-fighting measures
6. Accidental release measures
7. Handling and storage
8. Exposure controls/personal protection
9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information
12. Ecological information
13. Disposal considerations
14. Transport information
15. Regulatory information
16. Other information

## 1. Identification of substance or preparation and of the company/ undertaking

### Identification of the substance.

a. Cast steel abrasives, spherical and angular, graded to international standards having letters and numbers to indicate particle size and shape. b. The main uses for these materials are, blast cleaning using compressed air or air-less blast cleaning machines, sawing of granite and similar stones using frame saws, use as ballast or as aggregates in high density concretes.

### Company identification.

c. AIRBLAST EUROSPRAY, 26 King Street Ind. Est. Langtoft, Peterborough, PE6 9NF, UK.

### 1.4 Emergency telephone/fax number

Tel +44(0) 1778 560650 Fax +44(0) 1778 560724

Airblast Eurospray is a certified supplier of Ervin Amasteel products.

# Material safety data sheet: steel abrasives

## 2. Composition/information on ingredients

C	0.85 - 1.2%
Mn	0.35 - 1.2%
Si	0.4 - 1.5%
S	0.05% max
P	0.05% max

**Composition. Cast Steel.**  
**Chemical Composition.**

Elements within the steel abrasive are in an alloyed form and are not present in a free form.

## 3. Hazard identification

The products are chemically inert and do not present any specific risks to the person or the environment. The products contain no radioactive elements. Steel abrasives are not hazardous in themselves. The equipment, process conditions and products generated during shot blasting and other surface preparation applications may be hazardous. It is important to ensure that adequate instructions are given, and that all precautions are exercised for processes in which steel abrasives are used.

## 4. First Aid Measures

Eyes: Flush with clean running water. Seek medical assistance for the removal of particles from the eye.

Lungs: Remove to fresh air, rest and keep warm. Seek medical assistance.

Skin: Wash thoroughly with soap and water. Seek medical assistance.

Mouth: Wash out with clean water. Seek medical assistance.

## 5. Fire Fighting Measures

The products are not inflammable and do not react with water or other extinguishers. Fine metallic dust produced as a result of abrasive breakdown and/or from contaminant removed during blast cleaning may present a minor fire or explosion hazard. Fire should be extinguished using a dry chemical or similar system.

# Material safety data sheet: steel abrasives

## 6. Accidental Release Measures

Shot and grit spillage will create a slippage hazard. It is advisable that floors and work areas are kept clean at all times. Spillage can be reclaimed for reuse, or disposed of as non-hazardous material. Dust may be created when sweeping up spillage and a suitable dust mask should be used.

## 7. Handling and Storage

7.1 Care should be exercised when handling to prevent spillage. Where supplied in bulk on strapped pallets, care should be exercised in removing straps, which are under tension.

7.2 The products should be stored in a dry area to prevent rusting and agglomeration.

## 8. Exposure controls/personal protection

The level of personal protection required during shot blasting or stone sawing is dependent upon the type of installation employed; it is therefore the responsibility of the user to determine the most suitable protection for operators. Listed below are the most usual measures: the list is not intended to be comprehensive.

Respiration: Dust respirator  
Ventilation: L.E.V.  
Gloves: Industrial heavy duty  
Eye Protection: Goggles or face shield  
Other measures: Overalls and boots

# Material safety data sheet: steel abrasives

## 9. Physical and chemical properties

Non-Inflammable

Non-Explosive Boiling Point (Deg C) 3000 Degrees C Approximately

Melting Point (Deg C) 1500 Degrees C Approximately

Flash Point (Deg C) Not Applicable

Auto Ignition (Deg C) Not Applicable

Vapour Pressure Very Low – Not harmful at room temperature

Solubility in Water Very Low – Will Corrode

Bulk Density 4.5 Tonnes / M3 Approximately

## 10. Stability and reactivity

The product is stable under the normal operational conditions and not subject to hazardous reactions.

## 11. Toxicological information.

No specific indications or contraindications.

## 12. Ecological information.

There are no known effects Harmful to the environment caused by the product as supplied. Nevertheless exposure to atmospheric agents can provoke release of elements that may cause contamination. Use according to good working practices, avoiding the dispersion of the product in the environment. Pick up all residues of work, including empty containers, and ensure their correct disposal.

# Material safety data sheet: steel abrasives

## 13. Disposal considerations.

The disposal and possible recovery of the material must be effected according to normal regulation for any other metallic material. Dust generated during blast cleaning or surface preparation could contain contaminants from articles being processed. These contaminants may result in the dust being classed as hazardous waste. Local regulations may apply to disposal and should be followed.

## 14. Transport information.

There are no specific requirements and normal procedures should be followed.

## 15. Regulatory information.

Not subject to regulation. Steel abrasive is not considered to be a "dangerous preparation" under European Directive 1999/45/CE. Steel abrasive is not considered to be an "Article" within European Regulation 1907/2006CE the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

## 16. Other information

This information is to the best of our knowledge accurate. Airblast Eurospray cannot be held responsible where items supplied are used for any other purpose than that intended. No guarantee is given as to the absolute accuracy of any value or property stated. The information supplied applies only to steel abrasives as supplied in their new, unused condition.

Airblast Eurospray accepts no responsibility or liability for changes in properties or classification once the abrasives have been used, or through use in processes not complying with relevant regulations.

# Material safety data sheet: steel abrasives

## Revisions from EAF SA HSDS Issue 1. 01.08.03

Head and Footer. Reformatted and additional information included. Bob Crellin/09.04.13.

Paragraph 2. Composition/information on ingredients. Sentence added, Elements within the steel abrasive are in an alloyed form and are not present in a free form. Bob Crellin/9.04.13.

Paragraph 15. Regulatory information. Information relating to 1999/45/CE and European Regulation 1907/2006CE the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) included. Bob Crellin/09.04.13

<b>AIRBLAST EUROSPRAY</b>	<b>Tel +44 845 769 7225</b>
<b>26 King Street Industrial Estate</b>	<b>Fax +1778 560724</b>
<b>Langtoft</b>	<b>www.airblast.co.uk</b>
<b>Peterborough</b>	
<b>PE6 9NF</b>	
<b>UK</b>	

Airblast Eurospray is a certified supplier of Ervin Amasteel products.