



## SAFETY DATA FILE FOR STEEL ABRASIVE

KOVOBRASIV Mníšek, Ltd.  
Pražská 905, Mníšek pod Brdy  
Czech Republic

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Revision: 0

Drawn up according to standard: NF ISO 11014 - 1

### 1. Identification of product and person responsible for marketing

#### 1.1 Identification of product:

Steel abrasive.

#### 1.2 Identification of person responsible for marketing:

Address: KOVOBRASIV Mníšek, Ltd., Pražská 905, Mníšek pod Brdy, 25210, Czech Republic

Authorized contact person: Technical/commercial representative.

### 2. Composition

Wheelabrator Allevard provides hereunder **the highest** percentages by weight obtained during chemical analyses.

• Aluminium	< 0,2	• Lead	< 0,002
• Arsenic	< 0,03	• Carbon	< 1,2
• Silicon	< 1	• Chromium	< 0,5
• Copper	< 0,3	• Zinc	< 0,5
• Manganese	< 1	• Nickel	< 0,2
• Remainder iron.	>95%		

### 3. Identification of dangers

#### 3.1 Connected with the product itself:

KOVOBRASIV Mníšek, Ltd. currently knows of no risk.

#### 3.2 Connected with use of product:

##### 3.2.1 Intoxication:

Health risks are connected with exposure to dust. Dust is produced by the fragmentation of the abrasive and particles removed from the machined part.

##### 3.2.2 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...

#### 3.2.3 Other risks:

- The projection of abrasive exposes the operator to possible skin and eye lesions if no protection is worn.
- Noise.
- Falling over, aggravated by the presence of abrasive on the floor.
- Risks connected with handling

#### 4. **First aid**

In the event of dust getting in the eye:

- Do not rub
- Rinse with plenty of water.
- Consult an ophthalmologist if irritation persists.
- The user must determine for himself what measures to take, depending on the type of dust produced by his industrial process.

#### 5. **Fire-fighting measures**

Method of extinction:

- In event of dry fire /packaging/: ABC powder, water, foam.
- In event of metal fire: powders, CO<sub>2</sub>

Avoid scattering fine particles close to the fire.

#### 6. **Measures to be taken in case of accidental scattering**

Quickly clean the area with a vacuum cleaner or 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 cleared as quickly as possible after blasting operations have ceased.
- During air blasting operations, the operator must wear personal protection equipment.

### 7.2 Prevention of fire and explosions risks:

When there is a possible risk of fire or explosion, special precautions must be taken in the design and construction of the installation.

Furthermore, certain 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 booth must be carefully studied.

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

### 7.5 Storage:

- In a dry place.
- KOVOBRASIV Mníšek, Ltd. knows of no incompatible substance.
- It is advisable to keep the KOVOBRASIV Mníšek, Ltd. packaging, which is designed to provide complete water tightness.



## 8. Checking of exposure/individual protection

### 8.1 Checking of exposure:

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 essential for blasted parts that may contain silicon, lead or any other substance with an exposure limit / a list is given in INRS memo no. 1945-153-93 /.

Substances with an exposure limit that are contained in the abrasive are indicated in the composition details.

### 8.2 Individual protection equipment:

During air blasting, the head of the plant must provide each exposed worker with the following:

- A hood with its own air supply
- A overall with draw string at the neck, wrists and ankles.
- Safety shoes
- Ear protections
- 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
Specific gravity : round shot >7.4 angular grit >7.6	Solubility: insoluble in water
Density: 3 – 5 t/m <sup>3</sup>	pH: not applicable



A conformity certificate is issued by KOVOBRASIV Mníšek laboratories.

#### **10. Stability and reactivity**

- **Known decomposition product:** none
- **Stability during storage:** oxidation and aggregation in presence of damp.
- **Storage time:** unlimited.
- **Dangerous reaction:** iron oxide dust mixed with aluminum dust can produce aluminothermic reactions.

#### **11. Toxicological information**

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

#### **12. Ecotoxicological information**

- Lixiviation tests have been carried out on abrasive samples. The analytical results recorded show that there are no specific pollutants or toxins.

#### **13. Considerations relating to waste elimination**

- **Residue waste:** dust and used abrasive contain contaminants resulting from the industrial process. Each user must study the problem of waste in relation to his specific activity, in liaison with specialist organizations.
- **Packaging:** KOVOBRASIV Mníšek, Ltd., packaging is entirely recyclable.

#### **14. Transport**

- **International regulations /concerning dangerous substances/:** none



- **Transport outside storage areas:** protected against dump.
- **Transport inside storage areas:** fork lift trucks adapted to the packaging and weight of the consignments.
- **Weight:** for pallets: 1000 or 1500 kg  
for big bags: 1000 or 2000 kg.

### 15. Regulations

Kovobrasiv Mníšek's abrasives are subjected to National and European laws in effect.

### 16. Other information

*The information contained in this file is based on the state of knowledge at the date indicated. Consequently, any person or organization wishing to make any comment or criticism should inform us. Moreover, the information provided is not exhaustive. The user must therefore be fully acquainted with and apply the regulations in force.*

*Lastly, we wish to point out that KOVOBRASIV Mníšek, Ltd. provides training courses for users.*