



MATERIAL SAFETY DATA SHEET FOR COATED ABRASIVES
– Format by FEPA as per EC Directive 91/155 and ISO-Standard 11014 –

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Important notice:

Coated abrasives are inert products which do not create any risk when handled or stored. When used on grinding machines they require specific measures to protect the operators. During the grinding operation 90% or more of the particulates of the dust come from the material being ground and, for wet grinding, from aerosols generated by the grinding fluid. Specific attention must therefore be given to the nature of the part and of the fluid and the appropriate protection devices must be installed.

1. Product identification

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2. Composition/information on ingredients

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|-----|-----------|-------------------------------------|--|
| 2.1 | Abrasive: | <input checked="" type="checkbox"/> | Synthetic Aluminium oxide |
| | | <input type="checkbox"/> | Synthetic Silicon Carbide |
| | | <input type="checkbox"/> | Zirconia Alumina ($ZrO_2 \cdot Al_2O_3$) |
| | | <input type="checkbox"/> | Others: |
| 2.2 | Bond: | <input type="checkbox"/> | Glue (natural material derived from plant or animal) |
| | | <input checked="" type="checkbox"/> | Cured phenolic resin |
| | | <input checked="" type="checkbox"/> | Cured urea / melamine resin |
| | | <input type="checkbox"/> | Others: |
| 2.3 | Fillers: | <input checked="" type="checkbox"/> | Calcium carbonate |
| | | <input type="checkbox"/> | Kaolin |
| | | <input type="checkbox"/> | Cryolite |
| | | <input checked="" type="checkbox"/> | Others: Stearate |
| 2.4 | Backing: | <input checked="" type="checkbox"/> | Paper |
| | | <input type="checkbox"/> | Cotton cloth |
| | | <input type="checkbox"/> | Combination, paper/cloth |
| | | <input type="checkbox"/> | Cloth containing polyester |
| | | <input type="checkbox"/> | Vulcanised fibre |
| | | <input checked="" type="checkbox"/> | Others: Nylonvelour |
| 2.5 | Others: | | |

3. Hazards identification

NOT APPLICABLE.

Coated abrasives are not dangerous products as defined in EC Directive N° 88/379.

4. First aid measures

NOT APPLICABLE WHEN COATED ABRASIVES ARE IN USE ON MACHINES.

The following recommendations are basic rules during a grinding operation, they must be followed in conjunction with the information appearing in the safety data sheets of the material ground and of the grinding fluid when used.

- Dust inhalation: Remove from exposure, seek medical advice if symptoms persist.
- Eye: Remove from exposure and flush with clean water
If symptoms persist seek medical advice.
- Skin: No hazardous effect known.
- Ingestion: No hazardous effect known.

5. First fighting measures

NONE specific.

Water, powder, foam, sand, CO₂... can be used if compatible with operating conditions.

6. Accidental release measures

NOT APPLICABLE.

7. Handling and storage

Follow recommendations for machines and national regulations.

Store coated abrasives in moderate constant temperature and humidity conditions.

For detailed recommendations refer to the FEPA Safety Leaflet for Coated Abrasives.

8. Exposure control and personal protection

NOT APPLICABLE WHEN COATED ABRASIVES ARE HANDLED OR STORED.

During the grinding operation with coated abrasives particles of dust come from the material being ground. The general value for dust is max. 6 mg/m³.

When using coated abrasives, refer to grinding machines instructions and to the national rules. Refer also to the FEPA Safety Leaflet for Coated Abrasives.

8.1 The following personal protective equipment should be used dependent on the operation and the material being ground

- Eye protection: Machine guarding and safety goggles or face shield.
- Dust protection: Use of dust mask.
- Hand protection: Use of barrier cream and protective gloves.
- Ear protection: Use of ear defenders or equivalent.
- Skin protection: Use of suitable protective clothing.

8.2 Hygiene measures:

No specific requirements.

9. Physical and chemical properties

- 9.1 Physical state: Solid
- 9.2 Colour: Variable
- 9.3 Odour: Not applicable (May give off non specific odour in use)
- 9.4 pH: Not applicable
- 9.5 Change of physical state: Not applicable
- 9.6 Density: Not applicable
 - Bulk density: Not applicable
- 9.7 Vapour pressure: Not applicable
- 9.8 Flash point: Not applicable
- 9.9 Explosion properties: Not applicable
- 9.10 Viscosity: Not applicable
- 9.11 Solubility in water: Not defined

10. Stability and reactivity

Coated abrasives are stable and non reactive when handled or stored.

10.1 Conditions to avoid: not applicable.

10.2 Material to avoid: Strong acids, strong bases & strong oxidising agents may modify the mechanical characteristics of the products and create safety hazards when used on machines.

10.3 Hazardous decomposition products: if coated abrasives are used in accordance with instructions no hazardous decomposition products are created.

11. Toxicological information

NOT APPLICABLE WHEN HANDLED OR STORED.

According to the experience gathered for many years, coated abrasives, when properly used have no adverse effect on health, refer to the preliminary note about dust and aerosols of grinding fluid.

12. Ecological information

12.1 Mobility:

Not applicable.

12.2 Persistence and degradability:

Not defined.

12.3 Bioaccumulative potential:

Not applicable.

12.4 Ecotoxicity:

Not applicable.

13. Disposal considerations

After use, coated abrasives may be contaminated with hazardous materials (particles or cooling agents) and should be disposed of in accordance with national regulations.

14. Transport

Coated abrasives are not dangerous products.

15. Regulatory information

EC-Regulations: NONE, no specific marking required under the EC-Directive N°. 88/379.

National or Local Regulations: Refer to relevant texts.

16. Other information

Warning!

The above indications are based on existing practice and do not constitute a guarantee. The laws and regulations must be strictly followed by the users who remain responsible for the use of coated abrasives.