



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

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Issue date:
01-01-2002

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

Zirconia Resin Fibre Discs

2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1 Abrasive: Synthetic Aluminium oxide
 Synthetic Silicon Carbide
 Zirconia Alumina (ZrO₂ - Al₂O₃)
 Others: _____

2.2 Bond: Glue (natural material derived from plant or animal)
 Cured phenolic resin
 Cured urea / melamine resin
 Others: _____

2.3 Fillers: Calcium carbonate
 Kaolin
 Cryolite
 Others: _____

2.4 Backing: Paper
 Cotton cloth
 Combination, paper/cloth
 Cloth containing polyester
 Vulcanized fibre
 Others: _____

2.5 Others: _____

4. FIRST AID MEASURES

NOT APPLICABLE WHEN COATED ABRASIVES ARE NOT 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. FIRE 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 should be followed to prevent damage to bonded abrasives which may create a risk of rupture when use.

- Fragile products: handle and store with care
- Store at moderate temperatures and humidity. Excessive heat, humidity or thermal shocks may mechanically weaken the products and create safety hazards when used on machines
- For detailed recommendations refer to the FEPA SAFETY CODE and to the Safety Leaflets <<General>> and <<Portable>>.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

NOT APPLICABLE WHEN BONDED ABRASIVES ARE HANDLED OR STORED.

When using abrasive products, refer to grinding machines instructions and to the rules to prevent accidents in the work place.

For safe use of bonded abrasives refer to the FEPA SAFETY CODE and LEAFLETS and national regulations.

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

Bonded 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 oxidizing agents may modify the mechanical characteristics of the products and create safety hazards when used on machines.

10.3. Hazardous decomposition products :

If bonded abrasives are used in accordance with instructions, no hazardous decomposition products are created.

10.4. Other indications: NONE

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11. TOXICOLOGICAL INFORMATION

NOT APPLICABLE WHEN HANDLED OR STORED.

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

12. ECOLOGICAL INFORMATION

12.1. Mobility:

When bonded abrasives are used, the grinding debris are easily retained within fixed machines or with appropriate screens for portable operations.

12.2. Persistence and degradability :

Not bio-degradable

12.3. Bioaccumulative potential :

Not applicable.

12.4. Ecotoxicity:

Not applicable.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT

The bonded abrasives are not dangerous products and no specific regulations for many type of

transportation are required. Protect from rain and excessive temperature and humidity.

No special precautions necessary other than to insure no damage to the product occurs.

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 practise 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.