



Fédération Européenne des fabricants
de Produits Abrasifs



MATERIAL SAFETY DATA SHEET FOR GRINDING WHEELS AND BONDED ABRASIVES

Format by FEPA as per EC Directive 91/155/EEC and ISO - Standard 11014

COMPANY : SAINT-GOBAIN ABRASIFS AMBOISE

ADDRESS : 2, rue des Sables
NAZELLES - NEGRON - AMBOISE

AUTHORIZED PERSON : F. LAVAIRE

POSITION : PRODUCTS ENGINEER

PHONE : - **FAX** :

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IMPORTANT NOTICE :

The bonded 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 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 : BDX STEEL TYPE 41,42

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Abrasive :

- ☒ Synthetic Aluminium oxide
- ☐ Synthetic Silicon Carbide
- ☐ Zirconium Oxide + Aluminium Oxide
- ☐ Others :

2.2 Bond :

- ☐ VITRIFIED
- ☒ ORGANIC :
 - ☒ Polymerised synthetic resin
 - ☐ Rubber
 - ☐ Other organic:
- ☐ OTHERS :

2.3 Bond Fillers :

- ☐ Halogens compounds
- ☐ Carbonates
- ☐ Oxides
- ☒ Sulfur compounds Iron sulfure
- ☒ Others : Potassium sulfate

2.4 Reinforcement :

- ☒ Glass cloths
- ☐ Others :

2.5 Others :

3.	HAZARDS IDENTIFICATION NOT APPLICABLE: Bonded abrasives are not dangerous products as defined in EC Directive n° 88/379
4.	FIRST AID MEASURES APPLICABLE WHEN BONDED ABRASIVES ARE IN USE ON MACHINES The following recommendations are basic rules during a grinding operation, they must followed in conjunction with 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, CO ₂ ... can be used if compatible with operating conditions.
6.	ACCIDENTAL RELEASE MEASURES NOT APPLICABLE.
7.	HANDLING AND STORAGE The following recommendations should be followed to prevent damage to bonded abrasives which may create a risk of rupture when in use. - Fragile products : handle and store with care. - Store at moderate temperature 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 bonded abrasives, 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 <u>The following personal protective equipment</u> 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	<u>Hygiene measures</u> :	No specific requirements.
9.	PHYSICAL AND CHEMICAL PROPERTIES	
9.1	<u>Physical state</u> :	Solid
9.2	<u>Colour</u> :	Variable
9.3	<u>Odour</u> :	Not applicable (may give off non specific odour in use)
9.4	<u>pH</u> :	Not applicable
9.5	<u>Change of physical state</u> :	Not applicable
9.6	<u>Density</u> :	Depending upon product : 0.8 - 3.5 g/cm ³
	<u>Bulk density</u> :	Not applicable
9.7	<u>Vapour pressure</u> :	Not applicable
9.8	<u>Flash point</u> :	Not applicable
9.9	<u>Explosion properties</u> :	Not applicable
9.10	<u>Viscosity</u> :	Not applicable
9.11	<u>Solubility in water</u> :	Not applicable
10.	STABILITY AND REACTIVITY	
	Bonded abrasives are stable and non reactive when handled or stored.	
10.1	<u>Conditions to avoid</u> :	Excessive heat or humidity
10.2	<u>Material to avoid</u> :	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	<u>Hazardous decomposition products</u> :	if bonded abrasives are used in accordance with instructions, no hazardous decomposition products are created.
10.4	<u>Other indications</u> :	NONE

<p>11. TOXICOLOGICAL INFORMATION</p> <p>NOT APPLICABLE WHEN HANDLED OR STORED</p> <p>According to the experience gathered for many years, bonded abrasives, when properly used have no adverse effect on health, refer to the preliminary note about dust and aerosols.</p>
<p>12. ECOLOGICAL INFORMATION</p> <p>12.1 Mobility :</p> <p>When the bonded abrasives are used, the grinding debris is easily retained within fixed machines or with appropriate screens for portable grinding operations.</p> <p>12.2 Persistence and degradability : Not bio-degradable</p> <p>12.3 Bioaccumulative potential : Not applicable</p> <p>12.4 Ecotoxicity : Not applicable</p>
<p>13. DISPOSAL CONSIDERATIONS</p> <p>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.</p>
<p>14. TRANSPORT</p> <p>The bonded abrasives are not dangerous products and no specific regulations for any type of transportation are required. Protect from rain and excessive temperature and humidity.</p> <p>No special precautions necessary other than to insure that no damage to the product occurs.</p>
<p>15. REGULATORY INFORMATION</p> <p>EC-Regulations : NONE, no specific marking required under the EC-Directive n° 88/379</p> <p>National or local regulations : refer to relevant texts.</p>
<p>16. OTHER INFORMATION</p> <p>WARNING !</p> <p>The above indications are based on the existing practice and do not constitute a guarantee. The laws and regulations must be strictly followed by users who remain responsible for the use of Bonded Abrasives.</p>