

Bench Grinding Wheels Part No. Suffix 5441-
MATERIAL SAFETY DATA SHEET FOR INORGANIC BONDED ABRASIVES
-Formatted by FEPA as per EC Directive 91/155/EG and ISO Standard 11014 - 1

1. Identification of Product and Company: GARD Bench Grinding Wheel Part No: 5441- (size/grit)

1.1 Product Name:

Vitrified bonded Aluminium Oxide and Silicon Carbide wheels

1.2 Application

Abrading tool

1.3 Company identification:

Company: GARD Specialists Co., Inc.

Address: 621 Hwy 17 South Phone: 715-479-9365

Eagle River, WI 54521 Fax: 715-479-9269

USA E-mail: gardspec@newnorth.net

2. Composition/Information on Ingredients

The product contains the following marking required ingredients as per 67/548 EEC and 99/45 EC

Name	CAS	EG Nr. (ELINCS/EINECS)	Concentration area	Classifi- cation	R-Phrases

3. Hazards Identification

Not applicable

Abrasives are not dangerous substances or preparations as defined in EC directive N° 99/45.

See also section 8 and 16.

4. First Aid Measures

See also section 8 and 16

Inhalation: not possible, due to the form of the product

Eye contact: not possible, due to the form of the product

Skin contact: no harmful effects known

Ingestion: not likely, due to the form of the product

If necessary contact physician

5. Fire Fighting Measures

Toxic fumes may occur. Use respiratory protective equipment.

Extinguishing Media: water, foam, sand, powder or CO₂ as appropriate for surrounding materials

6. Accidental release measures

Not applicable.

7. Handling and Storage

Follow instructions and the relevant national regulations. In addition, observe the safety recommendations of the manufacturer.

8. Exposure Controls / Personal Protection

Before grinding risk assessment should be performed and individual personal protection measures adopted accordingly.

8.1. Exposure Limits

Keep limits of the following components under surveillance

(Observe the regional official regulations for dust)

	Name	CAS	EG Nr.	Concentration limits (TLW – TWA)
1	Aluminium Oxide	1344-28-1	215-691-6	10 mg/m ³
2	Silicon Carbide	409-21-2	206-991-8	5 mg/m ³

Note: Hazardous dust of workpiece material may be generated during grinding and/or sanding operations.

8.2. Exposure control and limitations

8.2.1. Exposure control and limitations of the work environment

Observe the regional official regulations for dust

8.2.1.1. Respiratory protection: Use respiratory equipment

(type depends on specific application and material being ground)

8.2.1.2. Hand protection: Wear protective gloves

(type depends on specific application and material being ground)

8.2.1.3. Eye protection: Wear protective goggles or face shield

(type depends on specific application and material being ground)

8.2.1.4. Hearing protection: Use hearing protection

(type depends on specific application and material being ground)

8.2.1.5. Body protection: Use protective clothing

(type depends on specific application and material being ground)

9. Physical and Chemical Properties

9.1	Physical state:	solid
9.2	Colour:	variable
9.3	Solubility in water:	insoluble

10. Stability and Reactivity

Stability

Vitrified Abrasives are stable when handled or stored

Reactivity

- 10.1 Conditions to avoid:
No decomposition in normal use.
- 10.2 Materials to avoid:
No dangerous reactions known.
- 10.3 Hazardous decomposition products:
At temperatures exceeding 250° C hazardous or toxic decomposition products may be generated

11. Toxicological Information

No toxicological effects if inhaled or swallowed or with eye or skin contact are known.
See also section 8.

12. Ecological Information

12.1	Eco toxicity:	no effects known
12.2	Mobility:	no potentials known
12.3	Persistence and degradability:	no biodegradable potentials known
12.4	Bioaccumulative potential:	no potentials known
12.5	Other hazardous effects:	no effects known

13. Disposal Considerations

13.1. Product

Follow national and regional regulations!

- Due to the ingredients (sum concentration under the limit) disposal as non hazardous waste (2000/532/EC) is possible if no hazardous materials are added to the abrasives. (EWC – Nr. 120121),
- Due to the ingredients (sum concentration above the limit) disposal as hazardous waste (2000/532/EC) (EWC – Nr. 120120)

13.2. Packing

Follow national and regional regulations!

14. Transport Information

The product is not covered by international regulation on the transport of dangerous goods.

15. Regulatory Information

No specific marking requirements under respective EC directives

16. Other Information

Under paragraph 2 of this material safety data sheet, only that substances/ingredients of the abrasive are listed, where a marking as per 67/548 EEC and 99/45 EC is required. The listing can be completed either by marking the substance or by deleting of the ingredients, which are not in use.

Substances, that are not on the list, but in use in the abrasive and where a marking as per 67/548 EEC and 99/45 EC is required, have to be added in the table.

A material safety data sheet is legally compliant only, if the issuer prepares/adds individual data.

The above information is based on GARD Specialists Co., Inc. current standard of knowledge and does not constitute any warranty of conditions of the product. The information does not form part of any contractual agreement. It remains the user's responsibility to adhere existing laws and regulations.