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1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product details small abrasives

Trade name: ceramic bonded abrasives

1.2 Particulars of manufacturer/ supplier

Manufacturer/ supplier JOTA AG

Address: Hirschensprungstr. 2 / Postfach 56

 Country code/ postcode/ city:
 CH-9464 Rüthi-SG

 Telephone:
 0041 (0)71 / 767 79 99

 Telefax:
 0041 (0)71 / 767 79 97

 Competent department:
 Quality assurance

 Telephone:
 0041 (0)71 / 767 79 54

 Importer:
 Ivoclar Vivadent Pty

1- 5 Overseas Drive Noble Park North VIC 3174 Tel: +61 3 9795 9599 Fax: +61 3 9795 9645

Email: info@ivoclarvivadent.com

1.3 Emergency phone 13 11 26

number: Poisons Hotline (24 hours / 7 days)

2 COMPOSITION/ INFORMATION ON COMPONENTS

2.1 <u>Chemical characterization:</u> ceramic bonding

Chemical description: SiC

2.2 Hazardous components

If used properly and according to current knowledge, it is not expected that the components of this product will represent a hazard.

Marking: none

3 POSSIBLE HAZARDS

3.1 Hazard identification

Provided that the standard safety precautions for small rotary abrasives and the general accident prevention precautions are observed and the personal protection outfit is used correctly, no particular hazards are known.

4 FIRST-AID MEASURES

4.1 General hints: refer to 'VBG 103'

4.2 After inhalation:

Fresh air, under normal circumstances no further measures are required. Should symptoms persist, consult a doctor.

4.3 After skin contact:

In case of allergic reaction, use protective gloves and special skin protection salve.

4.4 After eye contact:

Rinse thoroughly with water, then consult an eye specialist immediately.

4.5 After ingestion:

consult a doctor

4.6 Hints for doctors:

5 FIRE-FIGHTING MEASURES

- 5.1 Suitable extinguishing media:
- 5.2 Extinguishing media unsuitable for safety reasons:
- 5.3 Particular hazards by the material, its combustion products or released gases:
- 5.4 Special protection outfit:
- 5.5 Additional hints:



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6 MEASURES FOR ACCIDENTAL RELEASE

6.1 Personal precautions:

6.2 Environmental precautions:

no negative ecological effects known

- 6.3 Methods for cleaning/ disposal:
- 6.4 Additional hints:

7 HANDLING AND STORAGE

7.1 Handling:

<u>Hints for safe use:</u> refer to 'VBG 103' Personal protection outfit: protective glasses

Hand protection: protective gloves in case of regular, prolonged or intense skin

contact

Respiratory protection: machine suction of the grinding dust

7.2 Storage

Storage conditions for warehouse and

<u>containers:</u> Use only containers designed specially for

this material/ product. Ventilate the area

adequately.

Hints for storage with other goods:

Do not store in one place with oxidizing

agents.

Storage class: not applicable

Storage stability: if possible, at temperatures between

+ 5° C and + 50° C

8 EXPOSURE LIMITS AND PERSONAL PROTECTION OUTFIT

8.1 Additional hints for the design of technical plants

8.2 Components with limits as to work area which must be monitored

<u>Note:</u> Observe the general accident prevention regulations, especially concerning the circumferential speed respectively the maximum permissible speed of rotation for ceramic bonded instruments.

8.3 Personal protection outfit

<u>General protective and hygienic measures:</u> Persons with an allergic predisposition against grinding dust should avoid regular, prolonged or intense skin contact. If necessary, use your personal protection outfit. Clean and care for the skin. Do not eat, drink, smoke o r sniff while working.

Respiratory protection: Use a dust suction machine.

<u>Hand protection:</u> Provided that safety regulations permit this, in case of intense skin contact we recommend wearing protective gloves made of suitable plastic or synthetic rubber, otherwise apply a special skin protection salve.

Eye protection: tightly-fitting protective glasses

Body protection: Clean and care for the skin after work.



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9 PHYSICAL AND CHEMICAL PROPERTIES

9.1.1 Form:solid9.1.2 Colour:metallic9.1.3 Odour:none

9.2 Flammability: non-flammable if used properly

9.3 Melting temperature: 1700 - 2500° C

9.4 Spontaneous combustion: none9.5 Risk of explosion: none

9.6 Explosion limits: not applicable
9.7 Density (T = 15° C): 1.27 - 3.96 g/cm³
9.8 Solubility in water (T = 20° C): virtually insoluble
9.9 pH-value: (on g/H₂O) 3 - 8
9.10 Viscosity: not applicable
9.11 Flash point: not applicable

9.12 Thermal decomposition: 600° C (H₂O - dissolution)

9.13 Further details:

10 STABILITY AND REACTIVITY

10.1 Conditions to avoid:

no decomposition if used properly

10.2 Materials to avoid:

Strong oxidation material. The ceramic bonding reacts in contact with heavy basic (PH -value > 10) liquid mediums.

10.3 Hazardous decomposition products:

none if used and stored properly

10.4 Further details:

11 INFORMATION ON TOXICOLOGY

11.1 Acute toxicity:

<u>Specific symptoms in animal tests</u>: no data available Primary irritant effect: no data available

11.2 Subacute/ chronic toxicity

<u>Long-terms tests:</u> no data available Experience with humans: no data available

11.3 Additional toxicological hints:



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12 INFORMATION ON ECOLOGY

12.1 Information on elimination (persistence and degradability)

Penetration in soil or inshore waters is harmless due to the chemical degradability (long-term decomposition).

12.2 Behaviour in environmental areas

Product sinks in water.

12.3 Eco-toxicological effects

Marine toxicity penetration in waters harmless.

Behaviour in sewage purification plants: can be eliminated from water by mechanical separation.

12.4 Further ecological hints

13 HINTS FOR DISPOSAL

13.1 Product

Recommendation: no need for special disposal

13.2 Packaging

Recommendation: deliver to a licensed waste disposal company

14 TRANSPORT REGULATIONS

no hazardous goods as per regulations

15 REGULATIONS

15.1 Marking

<u>Hazard symbol and warning:</u> not required

Hazardous components requiring labelling:noneHazard codes:noneSafety codes:noneMarking acc. to Appendix II of the EU:nonePreparation Guidelines:none

15.2 National regulations

16 **FURTHER DETAILS**

The information given herein is based on the present state of our knowledge. It is intended to describe our product with regard to safety requirements and is not meant to assure any specific product properties.