# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

071398221

# The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071398189 071398197 071398205 071398213 071398239 071398247 071398254 071398262 071398270 071398288 071398296 071398312 071398320 071398346 071398361 071398379 071398387 071398395 071398403 071398411 071398429 071398437 071398445 071398452 071398460 071398478 071398486 071398494



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# **1 Identification**

### · Product identifier

<sup>·</sup> Trade name: KATANA Zirconia ONE

· Article number: US902

· Relevant identified uses of the substance or mixture and uses advised against

- No further relevant information available.
- · Application of the substance / the mixture Dental ceramic block

### · Details of the supplier of the safety data sheet

Manufacturer:

Kuraray Noritake Dental Inc. 300 Higashiyama, Miyoshi-cho, Miyoshi, Aichi, 470-0293 Japan

#### • Contact information : Kuraray America, Inc.

32 Old Slip, 7th Floor, New York,

NY 10005 U.S.A.

Tel: 800-879-1676

Fax: 888-700-5200

Website: www.kuraraydental.com

· Emergency telephone number:

For chemical emergency spill, leak, fire, exposure or accident

Call CHEMTREC day and night

Within USA and Canada: 1-800-424-9300 CCN706984 or

+1 703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

 $\cdot$  Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Other hazards
- Dust generation.
- Avoid breathing sanding dust / swarf.
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

# **3** Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
1314-23-4	zirconium dioxide	50-100%
1314-36-9	yttrium oxide	2.5-10%
	nickel oxide	<0.1%
	Carcinogenicity 1A, H350; Specific Target Organ Toxicity - Repeated Exposure 1, H372;  Sensitization - Skin 1, H317; Aquatic Chronic 4, H413	
Other ingredients: Pigment		

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### 4 First-aid measures

- · Description of first aid measures
- · After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **5 Fire-fighting measures**

- · Extinguishing media
- · Suitable extinguishing agents:
- Product is not flammable

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

• Special hazards arising from the substance or mixture No further relevant information available.

- · Advice for firefighters
- · Protective equipment: No special measures required.

### **6 Accidental release measures**

- · Personal precautions, protective equipment and emergency procedures
- See Section 8.

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotective personnel.

· Environmental precautions: Do not allow to enter sewers/ surface or ground water.

#### · Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Use appropriate Personal Protective Equipment (PPE).

- Reference to other sections
- See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· PAC-1:		
1314-23-4	zirconium dioxide	14 mg/m <sup>3</sup>
1314-36-9	yttrium oxide	3.8 mg/m <sup>3</sup>
1313-99-1	nickel oxide	0.76 mg/m <sup>3</sup>
· PAC-2:		
1314-23-4	zirconium dioxide	110 mg/m <sup>3</sup>
1314-36-9	yttrium oxide	43 mg/m <sup>3</sup>
1313-99-1	nickel oxide	220 mg/m <sup>3</sup>
· PAC-3:		
1314-23-4	zirconium dioxide	680 mg/m <sup>3</sup>
1314-36-9	yttrium oxide	260 mg/m <sup>3</sup>
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1313-99-1 nickel oxide

(Contd. of page 2)  $1,300 \text{ mg/m}^3$ 

### 7 Handling and storage

### · Handling:

#### · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with skin and eyes, Do not swallow. Avoid generating dust. Do not breathe dust/fume/gas/mist/vapors /spray.

· Information about protection against explosions and fires: Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store at room temperature.

· Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

-	s with limit values that require monitoring at the workplace: rconium dioxide	
PEL (USA)	Long-term value: 5 mg/m <sup>3</sup> as Zr	
REL (USA)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr	
TLV (USA)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr; A4	
1314-36-9 y	ttrium oxide	
PEL (USA)	Long-term value: 1 mg/m <sup>3</sup> as Y	
REL (USA)	Long-term value: 1 mg/m <sup>3</sup> as Y	
TLV (USA)	Long-term value: 1 mg/m <sup>3</sup> as Y	
1313-99-1 n	ickel oxide	
PEL (USA)	Long-term value: 1 mg/m <sup>3</sup> as Ni	
REL (USA)	Long-term value: 0.015 mg/m <sup>3</sup> as Ni; See Pocket Guide App. A	
TLV (USA)	Long-term value: 0.2 mg/m <sup>3</sup> as Ni; inhalable fraction	
· Additional i	<b>nformation:</b> The lists that were valid during the creation were used as basis.	
· General pro	ontrols otective equipment: otective and hygienic measures: from foodstuffs, beverages and feed.	
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(Contd. of page 3) Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. **Breathing equipment:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. **Protection of hands:** Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection: Tightly sealed goggles **9** Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Solid Color: Colored · Odor: Odorless Not determined · Odor threshold: · pH-value: Not determined · Change in condition Melting point/Melting range: Not determined Not determined **Boiling point/Boiling range:** · Flash point: Not determined Not determined. · Flammability (solid, gaseous): · Decomposition temperature: Not determined · Auto igniting: Not determined · Danger of explosion: Product does not present an explosion hazard. **Explosion limits:** Not determined Lower: (Contd. on page 5)



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Upper:	Not determined	
· Oxidizing properties	Not determined	
· Vapor pressure:	Not determined	
· Density:	Not determined.	
· Relative density	Not determined	
· Vapor density	Not determined	
· Evaporation rate	Not determined	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/	vater): Not determined	
· Viscosity:	Not determined	
· Dynamic:	Not determined	
· Kinematic:	Not determined	
Other information No further relevant information available.		

## **10 Stability and reactivity**

• Reactivity No further relevant information available.

- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: None

# **11 Toxicological information**

- · Information on toxicological effects
- · Primary irritant effect:
- on the skin: Based on available data, the classification criteria are not met.
- on the eye: Based on available data, the classification criteria are not met.
- Sensitization: Based on available data, the classification criteria are not met.
- · Subacute to chronic toxicity:

### · IARC (International Agency for Research on Cancer)

1313-99-1 nickel oxide

### · NTP (National Toxicology Program)

1313-99-1 nickel oxide

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

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· Behavior in environmental systems:

· Bioaccumulative potential No further relevant information available.

 $\cdot$  Mobility in soil No further relevant information available.

 $\cdot$  Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## $\cdot$ Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

### **13 Disposal considerations**

### · Recommendation:

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Transport information	
<sup>·</sup> UN-Number <sup>·</sup> DOT, ADR, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

# **15 Regulatory information**

### · Sara

· Section 355 (extremely hazardous substances):
None of the ingredient is listed.
· Section 313 (Specific toxic chemical listings):
1313-99-1 nickel oxide
• SARA 311/312: See Section 2 for the information on physical and health hazards.
Proposition 65

Chemicals known to cause cancer:

1313-99-1 nickel oxide

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· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Cancerogenity categories :	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
1314-23-4 zirconium dioxide	A4
1313-99-1 nickel oxide	A1
Signal word Void Hazard statements Void	· · · ·

· Hazard statements Void

· Precautionary statements



**WARNING**: This product can expose you to chemicals including nickel oxide which are known to the State of California to cause cancer. For more information go to https://www.p65warnings.ca.gov/.

· Chemical safety assessment

• Named dangerous substances - ANNEX I None of the ingredient is listed.

· National regulations:

· Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

### · Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• NFPA ratings (scale 0 - 4)



• HMIS-ratings (scale 0 - 4)

HEALTH0Health = 0FIRE0Fire = 0REACTIVITY0Reactivity = 0

### • Abbreviations and acronyms:

DOT: US Department of Transportation ELINCS: European List of Notified Chemical Substances Sensitization - Skin 1: Skin sensitisation - Category 1 Carcinogenicity 1A: Carcinogenicity - Category 1A Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) - Category 1 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4