

Printing date 24.08.2018 Version 2 Reviewed on 24.08.2018

1 Identification

· Product identifier

Trade name: Noritake Super Porcelain EX-3: Powder Type

Article number: CA825-PW

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

No further relevant information available.

- · Application of the substance / the mixture Dental porcelain
- 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.

33 Maiden Lane, 6th Floor, New York,

NY 10038 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

· Classification of the substance or mixture



GHS08 Health hazard

Carcinogenicity - Category 1A H350 May cause cancer.

Reproductive Toxicity - Category 2 H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure - H372 Causes damage to organs through prolonged or repeated exposure.



Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS07, GHS08
- · Signal word Danger
- · Hazard-determining components of labeling:

vanadium pentoxide

nickel oxide

· Hazard statements

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

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Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Other hazards

Avoid breathing sanding dust / swarf.

Dust generation.

Particular danger of slipping on spilled product.

- · Results of PBT and vPvB assessment
- · **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:	
1313-99-1	nickel oxide Carcinogenicity - Category 1A, H350; Specific Target Organ Toxicity - Repeated Exposure - Category 1, H372; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317; Aquatic Chronic 4, H413	<5%
13463-67-7	titanium dioxide Carcinogenicity – Category 2, H351	<1%
1314-62-1	vanadium pentoxide Germ Cell Mutagenicity - Category 2, H341; Carcinogenicity - Category 2, H351; Reproductive Toxicity - Category 2, H361; Specific Target Organ Toxicity - Repeated Exposure - Category 1, H372; Aquatic Chronic 2, H411; Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Inhalation) - Category 4, H332; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	<1%

Other ingredients:

Potassium alumino silicate glass

Pigments

4 First-aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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:

Do not induce vomiting; immediately call for medical help.

If symptoms persist consult doctor.

- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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· 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
- · 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.
- Environmental precautions: See Section 12.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- Precautions for safe handling

Prevent formation of dust.

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: No special measures required.
- · 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
- Components with limit values that require monitoring at the workplace:

1313-99-1 nickel oxide

EL (Canada) Long-term value: 0.05 mg/m³

as Ni; ACGIH A1, IARC 1

EV (Canada) Long-term value: 0.2 mg/m³

Inhalable fraction, as Ni

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13463-67-7 ti	tanium dioxide
EL (Canada)	Long-term value: 10* 3** mg/m³ *total dust;**respirable fraction; IARC 2B
	Long-term value: 10 mg/m³ total dust
1314-62-1 va	nadium pentoxide
	Long-term value: 0.05 mg/m³ inhalable, IARC 2B
EV (Canada)	Long-term value: 0.05 mg/m³ respirable dust and fume

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Do not inhale dust / smoke / mist.
- **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

· 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: Safety glasses

9 Physical and chemical properties

Information on basic physical and chemical properties
 General Information
 Appearance:

 Form:
 Powder

Color: Colored
Odor: Odorless
Odor threshold: Not determined.

· pH-value: Not determined

Change in condition

Melting point/Melting range: Not determined Not determined Not determined

• Flash point: Not determined
• Flammability (solid, gaseous): Not determined

• Decomposition temperature: Not determined

· Auto igniting: Not determined

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Danger of explosion: Product does not present an explosion hazard.		
· Explosion limits:		
Lower:	Not determined	
Upper:	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/wa	ter): 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
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

1314-62-1 vanadium pentoxide

Oral LD50 10 mg/kg (rat)

- Primary irritant effect:
- on the skin: Irritating effect
- on the eye: Mechanical effects only.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· IARC (International Agency for Research on Cancer)		
1313-99-1	nickel oxide	1
13463-67-7	titanium dioxide	2B
1314-62-1	vanadium pentoxide	2B

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· NTP (National Toxicology Program)

1313-99-1 nickel oxide

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12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation:

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

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

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



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15 Regulatory information

· Section	355	(extremely	hazardous	substances)	•

1314-62-1 vanadium pentoxide

Section 313 (Specific toxic chemical listings):

1313-99-1 nickel oxide

1314-62-1 vanadium pentoxide

- · SARA 311/312: See Section 2 for the information on physical and health hazards.
- Canadian substance listings:

· Canadian Domestic Substances List (DSL)

1313-99-1 nickel oxide

13463-67-7 titanium dioxide

Canadian Ingredient Disclosure list (limit 0.1%)

1313-99-1 nickel oxide

1314-62-1 vanadium pentoxide

Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients 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.

* Data compared to the previous version altered.

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