

Printing date 01.11.2022 Version 2 Reviewed on 01.11.2022

1 Identification

- · Product identifier
- Trade name: NORITAKE SUPER PORCELAIN EX-3: Paste type
- · Article number: WD825-PO
- · 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 Noritake Dental Inc. Overseas Sales Department Sales and Marketing Division

Tokiwabawhi Tower, 2-6-4 Otemachi,

Chiyoda-ku, Tokyo 100-0004,

Japan

Phone: +81-(0)3-6701-1748 Fax: +81-(0)3-6701-1805

e-mail: Dentalinfo.Jp@kuraray.com

2 Hazard(s) identification

· Classification of the substance or mixture

Acute Tox. 4 H302 Harmful if swallowed.

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

- · 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

· Hazard statements

H302 Harmful if swallowed.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

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

P264 Wash thoroughly after handling.

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

(Contd. on page 2)



Printing date 01.11.2022 Version 2 Reviewed on 01.11.2022

Trade name: NORITAKE SUPER PORCELAIN EX-3: Paste type

(Contd. of page 1)

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

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

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

P314 Get medical advice/attention if you feel unwell.

P405 Store locked up.

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

regulations.

- · Other hazards
- · 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	Dangerous components:		
	2-1 vanadium pentoxide ≤		
	 Muta. 2, H341; Carc. 2, H351; Repr. 2, H361; STOT RE 1, H372; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335 		
	glycerol	10-50%	
	1,3-Butanediol	5-15%	
	♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319		

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: Immediately call a 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
- · 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: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)



Printing date 01.11.2022 Version 2 Reviewed on 01.11.2022

Trade name: NORITAKE SUPER PORCELAIN EX-3: Paste type

(Contd. of page 2)

· Methods and material for containment and cleaning up:

Pick up mechanically.

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.

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: 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 tl	ie workplace:
-------------------	--------------	--------------	------------------	---------------

56-81-5 glycerol

PEL (USA)	Long-term value: 15" 5"" mg/m ³
	mist; *total dust **respirable fraction

TLV (USA) TLV withdrawn-insufficient data human occup. exp.

1314-62-1 vanadium pentoxide

PEL (USA)	Ceiling limit value: 0.5* 0.1** mg/m ³
	Ceiling limit value: 0.5* 0.1** mg/m³ as V2O5,*respirable dust **fume
REL (USA)	Ceiling limit value: 0.05* mg/m³ *15-min, except V metal and carbide
	*15-min, except V metal and carbide
TLV (USA)	Long-term value: 0.05* mg/m ³
	*as inhalable fraction

- Additional information: The lists that were valid during the creation were used as basis.
- $\cdot \, Exposure \, controls \,$
- · Personal protective equipment:
- 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:





Printing date 01.11.2022 Version 2 Reviewed on 01.11.2022

Trade name: NORITAKE SUPER PORCELAIN EX-3: Paste type

(Contd. of page 3)

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

O DI			•	4.0
9 Physica	al and d	chemica	il brot	perties

Information on basic physical and cher General Information Appearance: Form: Color:	Pasty Colored
Appearance: Form:	·
Form:	·
	·
Colore	Colored
Odor:	Odorless
Odor threshold:	Not determined
pH-value:	Not determined
Change in condition	
Melting point/Melting range:	18.2 °C (glycerol)
Boiling point/Boiling range:	290.0 °C (glycerol)
Flash point:	160 °C (glycerol)
Flammability (solid, gaseous):	Product is not flammable.
Ignition temperature:	400.0 °C (glycerol)
Decomposition temperature:	Not determined
Auto igniting:	Not determined
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	0.9 Vol % (glycerol)
Upper:	Not determined
Oxidizing properties	Not determined
Vapor pressure:	0.1 hPa (20°C, glycerol)
Density:	Not determined
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined

(Contd. on page 5)



Printing date 01.11.2022 Version 2 Reviewed on 01.11.2022

Trade name: NORITAKE SUPER PORCELAIN EX-3: Paste type

(Contd. of page 4)

· Solubility in / Miscibility with

Water: Partly miscible.

· Partition coefficient (n-octanol/water): 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: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

Harmful

· IARC (International Agency for Research on Cancer)

1314-62-1 vanadium pentoxide

2B

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.

(Contd. on page 6)



Printing date 01.11.2022 Version 2 Reviewed on 01.11.2022

Trade name: NORITAKE SUPER PORCELAIN EX-3: Paste type

(Contd. of page 5)

- · 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:

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.

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

4 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT · ADR, ADN, IMDG, IATA	Void 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 MARPOL73/78 and the IBC Code	II of Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Abbreviations and acronyms:

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 2: Carcinogenicity - Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2