

Printing date 14.08.2018 Version 3 Reviewed on 14.08.2018

1 Identification

· Product identifier

Trade name: Nori-Vest: Powder

· Article number: CA863-P

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

No further relevant information available.

- · Application of the substance / the mixture Dental refractory model materials
- · 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.

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



Acute Toxicity (Oral) - Category 4

H302 Harmful if swallowed.

- · 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:

Quartz (SiO2)

cristobalite

· Hazard statements

H302 Harmful if swallowed.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

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

P264 Wash thoroughly after handling.

(Contd. on page 2)



Printing date 14.08.2018 Version 3 Reviewed on 14.08.2018

Trade name: Nori-Vest: Powder

(Contd. of page 1)

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

P281 Use personal protective equipment as required.

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

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

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth. P405 Store locked up.

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

regulations.

· Other hazards

Particular danger of slipping on spilled product.

Dust generation.

- · 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:		
1344-28-1	aluminium oxide	10-30%
1309-48-4	magnesium oxide	5-25%
	Quartz (SiO2) Carcinogenicity - Category 1A, H350; Specific Target Organ Toxicity - Repeated Exposure - Category 1, H372; Acute Toxicity (Oral) - Category 4, H302	30-60%
14464-46-1	cristobalite Carcinogenicity – Category 2, H351; Specific Target Organ Toxicity - Repeated Exposure - Category 1, H372	7-13%

Other ingredients: Ammonium dihydrogenorthophosphate

4 First-aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · 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
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.



Version 3 Reviewed on 14.08.2018 Printing date 14.08.2018

Trade name: Nori-Vest: Powder

(Contd. of page 2)

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

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:

Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways.

Use appropriate Personal Protective Equipment (PPE).

Vacuum or sweep material and place in a disposal container. Provide ventilation.

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

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

Ensure good ventilation/exhaustion at the workplace.

Handle and open container with care.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

Store at room temperature.

Store under lock and key and out of the reach of children.

· 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

	Control para	meers
	·Components	with limit values that require monitoring at the workplace:
		Quartz (SiO2)
	EL (Canada)	0.025 mg/m³ ACGIH A2; IARC 1
	EV (Canada)	0.10* mg/m³ *respirable fraction
- [1344_28_1 alı	iminium ovide

EL (Canada)	10 mg/m ³
EV (Canada)	10 mg/m ³
	total dust

(Contd. on page 4)



Printing date 14.08.2018 Version 3 Reviewed on 14.08.2018

Trade name: Nori-Vest: Powder

1309-48-4 magnesium oxide

EL (Canada) Short-term value: 10** mg/m³
Long-term value: 10** mg/m³
*inhalable fume;**respirable dust and fume

EV (Canada) 10 mg/m³
inhalable

14464-46-1 cristobalite

EL (Canada) 0.025 mg/m³
ACGIH A2; IARC 1

EV (Canada) 0.05* mg/m³
*respirable fraction

- · 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:**

Suitable respiratory protective device recommended.

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.

Use suitable respiratory protective device in case of insufficient ventilation.

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: Goggles recommended during refilling.

9 Physical and chemical properties

Information on basic physical and chemical propertie	· Information or	asic physical	l and chemical	properties
--	------------------	---------------	----------------	------------

· General Information

· Appearance:

Form: Powder
Color: White
Odor: Odorless
Odor threshold: Not determined

• pH-value: Not determined

· Change in condition

Melting point/Melting range:

Boiling point/Boiling range:

Not determined

Not determined

· Flash point: Not determined

• Flammability (solid, gaseous): Product is not flammable.

(Contd. on page 5)



Printing date 14.08.2018 Version 3 Reviewed on 14.08.2018

Trade name: Nori-Vest: Powder

	(Contd. of p	page
· Ignition temperature:	Not determined	
· Decomposition temperature:	Not determined	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined	
Upper:	Not determined	
· Oxidizing properties	Not determined	
· Vapor pressure:	Not determined	
Density at 20 °C:	3 g/cm ³	
Relative density	Not determined	
· Vapor density	Not determined	
Evaporation rate	Not determined	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· 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:
- **Primary irritant effect:**
- on the skin: No irritant effect.
- on the eye: Mechanical effects only.
- · Sensitization: Sensitizing effect through inhalation is possible with prolonged exposure.
- Other information (about experimental toxicology):

(Contd. on page 6)



Printing date 14.08.2018 Version 3 Reviewed on 14.08.2018

Trade name: Nori-Vest: Powder

(Contd. of page 5)

Nori-Vest; Powder

LD50 oral rat 300-2000 mg/kg LD50 dermal rat Not determined LC50 inhalation rat Not determined

Quartz (SiO2)

LD50 oral rat 500 mg/kg

magnesium oxide

LD50 oral rat > 5000 mg/kg

• Additional toxicological information:

Harmful

The product is not subject to classification according to internally approved calculation methods for preparations:

· IARC (International Agency for Research on Cancer)			
	Quartz (SiO2)	1	
14464-46-1	cristobalite	1	
· NTP (National Toxicology Program)			
	Quartz (SiO2)	K	
14464-46-1	cristobalite	K	

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 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.

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

14 Transport information

- · UN-Number
- · DOT, TDG, ADN, IMDG, IATA Void

(Contd. on page 7)



Printing date 14.08.2018 Version 3 Reviewed on 14.08.2018

Trade name: Nori-Vest: Powder

	(C	ontd. of page 6)
· 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: · Marine pollutant:	No	
· 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

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

1344-28-1 aluminium oxide

- · SARA 311/312: See Section 2 for the information on physical and health hazards.
- · Canadian substance listings:
- · Canadian Domestic Substances List (DSL)

All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

14808-60-7 Quartz (SiO2) 1344-28-1 aluminium oxide 1309-48-4 magnesium oxide 14464-46-1 cristobalite

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.

CA