

Safety Data Sheet acc. to OSHA HCS Version 3

Reviewed on 07/26/2018

Printing date 07/26/2018

1 Identification

- · Product identifier
- · Trade name: EX-3 PRESS LF : Powder Type
- · Article number: US830-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

	110.44	
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.

GHS07

Acute Tox. 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:

- vanadium pentoxide
- titanium dioxide
- · 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.



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D	(Contd. of pag
	ionary 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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
	312 If swallowed: Call a poison center/doctor if you feel unwell.
P308+P3	313 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 h	
Avoid b	reathing sanding dust / swarf.
Dust ger	
	of PBT and vPvB assessment
	ot applicable.
	lot applicable.
12 121-	·····
Compo	osition/information on ingredients
comp	sition mation on ingreatents

· Dangerous components:

Dangerous	Dangerous components.			
	-7 titanium dioxide ≤1			
	🗞 Carc. 2, H351			
		≤1%		
	 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 			
Other ingredients:				

Potassium alumino silicate glass Pigments

4 First-aid measures

· Description of first aid measures

- After inhalation: Supply fresh air and to be sure call for a doctor.
- · 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.

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· Advice for firefighters

• Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures See Section 8.
- \cdot Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot 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

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
	Control	parameters

Components with limit values that require monitoring at the workplace:			
13463-67-7 1	13463-67-7 titanium dioxide		
PEL (USA)	Long-term value: 15* mg/m ³ *total dust		
REL (USA)	See Pocket Guide App. A		
TLV (USA)	Long-term value: 10 mg/m ³ withdrawn from NIC		
1314-62-1 va	anadium pentoxide		
PEL (USA)	Ceiling limit value: 0.5* 0.1** mg/m ³ as V2O5,*respirable dust **fume		
REL (USA)	Ceiling limit value: 0.05* mg/m ³ *15-min, except V metal and carbide		
TLV (USA)	Long-term value: 0.05* mg/m ³ *as inhalable fraction		
· Additional i	nformation: The lists that were valid during the creation were used as basis.	(Contd. on page 4)	

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- · 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

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:	Powder	
Color:	Colored	
Odor:	Odorless	
· Odor threshold:	Not determined	
· pH-value:	Not determined	
· Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
· Flash point:	Not determined	
· Flammability (solid, gaseous):	Not determined	
• Decomposition temperature:	Not determined	
· Auto igniting:	Not determined	
Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined	
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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 wit	h		
Water:	Insoluble.		
· Partition coefficient (n-octai	ol/water): Not determined		
· Viscosity:	Not determined		
· Dynamic:	Not determined		
· Kinematic:	Not determined	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: Carbon monoxide and carbon dioxide

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 Rese	arch on Cancer)
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13463-67-7 titanium dioxide

1314-62-1 vanadium pentoxide

· NTP (National Toxicology Program)

None of the ingredients is listed.

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2B

2B

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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:

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.

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

15 Regulatory information

Section 355 (extremely hazardous substances):

1314-62-1 vanadium pentoxide

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· Section 313 (Specific toxic chemical listings):	
1314-62-1 vanadium pentoxide	
SARA 311/312: See Section 2 for the information on physical and health hazards.	
Proposition 65	
· Chemicals known to cause cancer:	
13463-67-7 titanium dioxide	
1314-62-1 vanadium pentoxide	
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.	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value established by ACGIH)	
13463-67-7 titanium dioxide	A4
1314-62-1 vanadium pentoxide	A3
·NIOSH-Ca (National Institute for Occupational Safety and Health)	
13463-67-7 titanium dioxide	
Precautionary statements	



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

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)

HEALTH 1	Health = 1
FIRE 0	Fire = 0
REACTIVITY 0	Reactivity $= 0$

Abbreviations and acronyms:

Acute Tox. 4: Acute toxicity - Category 4 Muta. 2: Germ cell mutagenicity - Category 2 Carc. 2: Carcinogenicity - 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

* * Data compared to the previous version altered.