

Safety Data Sheet acc. to OSHA HCS

Version 7

Reviewed on 01/17/2024

Printing date 01/17/2024

1 Identification

· Product identifier

[·] Trade name: PANAVIA F 2.0 ; PASTE B (TC, White, Light, Opaque)

• Article number: US089-PB

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

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

· Details of the supplier of the safety data sheet

Manufacturer: Kuraray Noritake Dental Inc.
1621 Sakazu, Kurashiki, Okayama 710-0801, Japan
Supplier Kuraray America, Inc.
32 Old Slip, 7th Floor, New York, NY 10005 U.S.A.
Tel: 800-879-1676
Website: www.kuraraydental.com
Emergency telephone number: 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

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Skin Irritation 2 H315 Causes skin irritation.

Eye Irritation 2A H319 Causes serious eye irritation.

Carcinogenicity 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.

· Label elements

· GHS label elements

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

· Hazard pictograms



· Signal word Warning

· Hazard-determining components of labeling: sodium fluoride titanium dioxide · Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H351 Suspected of causing cancer. Route of exposure: Inhalation. · Precautionary statements Wear protective gloves / eye protection / face protection. P280 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P330 Rinse mouth. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
Other here and A	

· Other hazards Avoid breathing sanding dust / swarf.

· 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:			
	sodium fluoride	≤10%	
	locate Toxicity - Oral 3, H301; 🚸 Skin Irritation 2, H315; Eye Irritation 2A, H319		
	titanium dioxide	<10%	
	Tarcinogenicity 2, H351		
Other ingredients:			
Silanated ba	Silanated barium glass filler		
Hydrophobi	Hydrophobic aromatic dimethacrylate		

Silanated barium glass filler Hydrophobic aromatic dimethacrylate Hydrophobic aliphatic dimethacrylate Catalyst Accelerators Pigment

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

- Avoid contact with eyes.
- Avoid contact with skin.
- After inhalation: 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. If symptoms persist, consult a doctor.
- · After swallowing: Immediately call a 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:

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.

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· Advice for firefighters

• Protective equipment: Wear fully protective suit.

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 unprotected personnel.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

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

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

· Precautions for safe handling

Open and handle receptacle with care.

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: Store in a refrigerator (2-8°C).
- · Information about storage in one common storage facility:
- Store away from oxidizing agents.
- Store away from reducing agents.

· Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

7681-49-4 sodium fluoride

- PEL Long-term value: 2.5 mg/m³ as F REL Long-term value: 2.5 mg/m³ as F
- TLV Long-term value: 2.5 mg/m³ as F, A4; BEI

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134	63-67-7 titanium dio	xide	
PEI	Long-term value: 1	5* mg/m ³	
	*total dust		
REI	See Pocket Guide A	App. A	
	/ Long-term value: 0		
IL		oscale,**finescale, A3	
·Ing	redients with biologi	cal limit values:	
	1-49-4 sodium fluori		
	2 mg/L		
DLI	Medium: urine		
	Time: prior to shift		
		(background, nonspecific)	
	2		
	3 mg/L Medium: urine		
	Time: end of shift		
		(background, nonspecific)	
· Add		The lists that were valid during the creation w	ere used as basis
· Per- · Gen Imn Was Stor Avo · Bre	sonal protective equi neral protective and landinediately remove all s	hygienic measures: oiled and contaminated clothing. s and at the end of work. separately. ves and skin. lot required.	r data; see section 7.
Due the o Sele degu Ma t The and resis appl Pen The obso	to missing tests no re- chemical mixture. Exction of the glove ma radation terial of gloves selection of the suital varies from manufact stance of the glove ma lication. etration time of glov	be impermeable and resistant to the product/ the ecommendation to the glove material can be give terial on consideration of the penetration times, ble gloves does not only depend on the material urer to manufacturer. As the product is a preparaterial can not be calculated in advance and has the material me has to be found out by the manufacturer of the	ven for the product/ the preparation/ s, rates of diffusion and the al, but also on further marks of quality tration of several substances, the s therefore to be checked prior to the
	Tightly sealed	goggles	

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ties Solid Colored Odorless Not determined. 1012 °C (sodium fluoride) 1704 °C (sodium fluoride) Not determined Not determined. Not determined. Not determined. Not determined Not determined Not determined Not determined Not determined Not determined.
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Not determined.
Not determined
Not determined
Not determined
Soluble.
Not determined.
Not determined.
2.0 g/cm ³
Not determined
Not applicable.
Not determined
Product does not present an explosion hazard.
Not determined
Not determined

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.
- \cdot 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: Harmful if swallowed.

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7681-49-4 sodium fluoride				
Oral	LD50	44 mg/kg (mouse)		
		52 mg/kg (rat)		
13463-67-	7 titanium	dioxide		
Oral	LD50	>20,000 mg/kg (rat)		
Dermal	LD50	>10,000 mg/kg (rabbit)		
Inhalative	LC50/4 h	>6.82 mg/l (rat)		
 Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Suspected of causing cancer. Route of exposure: Inhalation. Reproductive toxicity Based on available data, the classification criteria are not met. Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met. Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met. Subacute to chronic toxicity: 				
Specific ta Based on a Specific ta Based on a Aspiration	available da arget organ available da n hazard E	ata, the classification criteria are not met. n toxicity - repeated exposure ata, the classification criteria are not met. Based on available data, the classification criteria are not met.		
Specific ta Based on a Specific ta Based on a Aspiration Subacute Carcinoge	available da arget organ available da n hazard E to chronic enic catego	ata, the classification criteria are not met. n toxicity - repeated exposure ata, the classification criteria are not met. Based on available data, the classification criteria are not met. toxicity: pries		
Specific ta Based on a Specific ta Based on a Aspiration Subacute Carcinoge IARC (In	available da arget organ available da n hazard E to chronic enic catego ternationa	ata, the classification criteria are not met. n toxicity - repeated exposure ata, the classification criteria are not met. Based on available data, the classification criteria are not met. toxicity:		
Specific ta Based on a Specific ta Based on a Aspiration Subacute Carcinogo IARC (In None of th	available da arget organ available da n hazard E to chronic enic catego ternationa le ingredier	ata, the classification criteria are not met. n toxicity - repeated exposure ata, the classification criteria are not met. Based on available data, the classification criteria are not met. toxicity: pries I Agency for Research on Cancer)		

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects
- · 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.

13 Disposal considerations

· Recommendation:

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

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· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

4 Transport information		
· UN-Number · DOT, IMDG, IATA	Void	
· UN proper shipping name · DOT, IMDG, IATA	Void	
· Transport hazard class(es)		
[·] DOT, IMDG, IATA [·] Class	Void	
· Packing group · DOT, IMDG, IATA	Void	
· Environmental hazards: · Marine pollutant:	No	
· 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

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

- · Section 355 (extremely hazardous substances):
- None of the ingredient is listed.
- · Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.
- SARA 311/312: See Section 2 for the information on physical and health hazards.
- TSCA (Toxic Substances Control Act):
- None of the ingredients is listed.
- · Proposition 65
- · Chemicals known to cause cancer:
- None of the ingredients is listed.
- · 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.

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· Cancerogenity categories :

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

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.

· Relevant phrases

H301 Toxic if swallowed.

H315 Causes skin irritation.

- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.



Health = 2Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 2	Health = 2
FIRE 0	Fire = 0
REACTIVITY 0	Reactivity =

· Abbreviations and acronyms:

DOT: US Department of Transportation ELINCS: European List of Notified Chemical Substances TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Acute Toxicity - Oral 3: Acute toxicity - Category 3 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Carcinogenicity 2: Carcinogenicity - Category 2 * * Data compared to the previous version altered.

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