

Safety Data Sheet acc. to OSHA HCS Version 6

Reviewed on 09/29/2023

Printing date 09/29/2023

1 Identification

- · Product identifier
- · Trade name: K-ETCHANT GEL
- Article number: US021
- · Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- \cdot Application of the substance / the mixture \mbox{Dental} material

· Details of the supplier of the safety data sheet

Manufacturer:
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

Skin Corrosion 1B H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.

· Label elements

· GHS label elements

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

· Hazard pictograms



· Signal word Danger

Hazard-determin	ing components of labeling:
phosphoric acid	
Hazard statemen	ts
H314 Causes seve	re skin burns and eye damage.
Precautionary sta	atements
P260	Do not breathe dusts or mists.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
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(Contd. of page 1) Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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:

7664-38-2 phosphoric acid

• Other ingredients:

Skin Corrosion 1B, H314 25-50%

Water

Amorphous silica

Dye

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. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. 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. • Special hazards arising from the substance or mixture No further relevant information available.

- Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures See Section 8.

· Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

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Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. • Reference to other sections See Section 7 for information on safe handling.	(comu or page 2)
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
7 Handling and storage	
 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. 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: Store in a cool location (2-25°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:

7664-38-2 phosphoric acid

PEL Long-term value: 1 mg/m³

REL Short-term value: 3 mg/m³

Long-term value: 1 mg/m³

TLV Short-term value: 3 mg/m³ Long-term value: 1 mg/m³

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

• Additional information about design of technical systems: No further data; see section 7.

· Personal protective equipment:

· General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• 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

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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:



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Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties				
· Physical state	Liquid			
· Color:	Red			
· Odor:	Odorless			
• Odor threshold:	Not determined.			
 Melting point/Melting range: 	42.4 °C (phosphoric acid)			
 Boiling point/Boiling range: 	Not determined.			
 Flammability (solid, gaseous): 	Not determined.			
· Explosion limits:				
· Lower:	Not determined			
· Upper:	Not determined			
· Flash point:	Not determined			
Auto ignition temperature:	Not determined			
• Decomposition temperature:	Not determined			
· pH-value:	1.6 - 2.1			
· Viscosity:	Not determined			
· Kinematic viscosity	Not determined.			
· Dynamic:	Not determined.			
Solubility in / Miscibility with				
· Water:	Partly miscible.			
· Partition coefficient (n-octanol/water):	Not determined			
· Vapor pressure:	Not determined.			
· Relative density	Not determined			
· Relative vapor density	Not determined			
• Other information				
· Important information on protection of health	and			
environment, and on safety.				
Danger of explosion:	Product does not present an explosion hazard.			
· Change in condition				
· Evaporation rate	Not determined.			
-	Not determined			

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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: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for	classification:
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7664-38-2 phosphoric acid

Oral LD50 1,250 mg/kg (mouse)

1,250 mg/kg (rat)

Dermal LD50 2,740 mg/kg (rabbit)

• on the skin: Causes severe skin burns and eye damage.

• on the eye: Causes serious eye damage.

· Sensitization: Based on available data, the classification criteria are not met.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Based on available data, the classification criteria are not met.

• 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:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

- · 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:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Must not reach bodies of water or drainage ditch undiluted or unneutralized. Water hazard class 1 (Self-assessment): slightly hazardous for water

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

· 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, IMDG, IATA	UN1805
UN proper shipping name	
DOT	Phosphoric acid solution
IMDG, IATA	PHOSPHORIC ACID, SOLUTION
Transport hazard class(es)	
DOT	
A	
5.5	
CORROSIVE	
\mathbf{V}	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code	
EMS Number:	F-A,S-B
Segregation groups	(SGG1) Acids
Stowage Category	А
Segregation Code	SG36 Stow "separated from" SGG18-alkalis.
	SG49 Stow "separated from" SGG6-cyanides
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.



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· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L
•	On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

15 Regulatory information

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

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

7664-38-2 phosphoric acid

• SARA 311/312: See Section 2 for the information on physical and health hazards.

· TSCA (Toxic Substances Control Act):

7732-18-5 water, distilled, conductivity or of similar purity 7664-38-2 phosphoric acid

· Hazardous Air Pollutants

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.

[·] Cancerogenity categories :

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value)

None of the ingredients is listed.

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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

H315 Causes skin irritation.

ACTIVE

ACTIVE



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H319 Causes serious eye irritation. H314 Causes severe skin burns and eye damage.	(Contd. of page 7)
• NFPA ratings (scale 0 - 4)	
Health $= 3$	
Fire = 0	
3 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH 3 Health $= 3$	
FIRE 0 Fire $= 0$	
REACTIVITY 0 Reactivity = 0	
· 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	
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B	
Eye Damage 1: Serious eye damage/eye irritation – Category 1	
• * Data compared to the previous version altered.	