

Safety Data Sheet acc. to OSHA HCS

Version 5

Reviewed on 10/02/2024

Printing date 10/02/2024

1 Identification

· Product identifier

- · Trade name: CLEARFIL SE Protect ; PRIMER
- · Article number: US092-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 materials

[.] Details of the supplier of the safety data sheet

· 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 Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Ski	n 1 H317 May cause an allergic skin reaction.
Toxic to Reproduc	ction 1B H360 May damage fertility or the unborn child.
· Label elements	
· GHS label element	
	ssified and labeled according to the Globally Harmonized System (GHS).
• Hazard pictogram	ns
GHS07 GHS0	8
· Signal word Dang	ger
· Hazard-determin	ing components of labeling:
2-hydroxyethyl m	
	methylbenzoyl)phosphine oxide
2-dimethylaminoe	thyl methacrylate
· Hazard statemen	ts
H315 Causes skin	irritation.
H319 Causes serie	ous eye irritation.
	an allergic skin reaction.
	e fertility or the unborn child.
· Precautionary sta	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
D200 / D212	present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse. (Contd. on page 2)
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P405 P501 Store locked up. 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 components:			
868-77-9	2-hydroxyethyl methacrylate	25 - 45%	
	 2-hydroxyethyl methacrylate Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317 		
2867-47-2	2-dimethylaminoethyl methacrylate	< 5%	
	Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317		
75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	< 1%	
	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide Toxic to Reproduction 1B, H360; Sensitization - Skin 1B, H317		

4 First-aid measures

· Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:
- Supply fresh air and to be sure call for a doctor.

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: If symptoms persist consult 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.
- · 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: Dilute with plenty of water.
- Methods and material for containment and cleaning up:

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

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Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

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

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

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: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed receptacles.

· 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• 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:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· Breathing equipment: Suitable respiratory protective device recommended.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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(Contd. of page 3) 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

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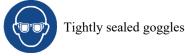
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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material 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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9 Physical and chemical properties

· Information on basic physical and chemical pr	operties
General Information	
· Physical state	Liquid
· Color:	Light blue
· Odor:	Odorless
· Odor threshold:	Not determined.
• Melting point/Melting range:	Not determined.
 Boiling point/Boiling range: 	100 °C (7732-18-5 water, distilled, conductivity or of
	similar purity)
· Flammability:	Not determined.
• Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	106 °C (868-77-9 2-hydroxyethyl methacrylate)
• Auto ignition temperature:	375 °C (868-77-9 2-hydroxyethyl methacrylate)
· Decomposition temperature:	Not applicable.
· pH-value at 20 °C:	≤2.5
· Viscosity:	
· Kinematic viscosity	Not determined.
Dynamic:	Not determined.
· Solubility in / Miscibility with	
Water:	Partly miscible.
 Partition coefficient (n-octanol/water): 	Not applicable.
· Vapor pressure at 20 °C:	23 hPa (7732-18-5 water, distilled, conductivity or of
	similar purity)
· Density at 20 °C:	1.1 g/cm^3
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.
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· Evaporation rate

Not determined.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability No hazardous reaction when handled and stored according to provisions.
- 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:

868-77-92		ethyl methacrylate
Oral	LD50	4,680 mg/kg (guinea pig)
		3,275 mg/kg (mouse)
		5,050 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)
2867-47-2	2-dimethy	ylaminoethyl methacrylate
Oral	LD50	1,751 mg/kg (rat)
Inhalative	LC50/4 h	0.62 mg/l (rat)
	LD50	25 mg/kg (mouse - intraperitoneal)
• on the ski Causes ski	n: n irritation	
· on the eye		-
	ious eye ir	ritation.
· Sensitizat		
May cause	an allergio	e skin reaction.
		city Based on available data, the classification criteria are not met.
· Carcinoge	enicity Bas	ed on available data, the classification criteria are not met.
·Reproduc		
May dama	ge fertility	or the unborn child.
· Specific ta	arget organ	n toxicity - single exposure
Based on a	available da	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.
· Subacute	to chronic	toxicity:
· Carcinoge	ē	
•		l Agency for Research on Cancer)
None of th	e ingredier	nts is listed.
·NTP (Nat	ional Toxi	cology Program)
None of th	e ingredier	nts is listed.

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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.
- \cdot Mobility in soil No further relevant information available.
- \cdot Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects
- \cdot 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.

· Uncleaned packagings:

· Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

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:	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

 \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.

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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 hazar	ds.
TSCA (Toxic Substances Control Act):	
868-77-9 2-hydroxyethyl methacrylate	ACTIVE
2867-47-2 2-dimethylaminoethyl methacrylate	ACTIVE
75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	ACTIVE
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)	

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

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H360 May damage fertility or the unborn child.
- · NFPA ratings (scale 0 4)



Health = 2Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 2	Health = 2
	Fire = 1
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



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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 Sensitization - Skin 1: Skin sensitisation – Category 1 Sensitization - Skin 1B: Skin sensitisation – Category 1B Toxic to Reproduction 1B: Reproductive toxicity – Category 1B • * Data compared to the previous version altered. (Contd. of page 7)

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