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Safety Data Sheet acc. to OSHA HCS

Printing date 09/20/2021

Reviewed on 04/23/2020

Identification		
Product identifier		
Trade name: <u>OpalTM S</u>		
Article number: SDS 2 Application of the subs	265-001.09, OS/71022 s tance / the mixture Professional Orthodontic Primer and Sealant	
Details of the supplier Manufacturer/Supplie Ultradent Products Inc 505 W. Ultradent Drive South Jordan, UT 8409 USA onlineordersupport@u	c. e (10200 S) 95-3942	
Hazard(s) identific	cation	
Classification of the su		
Flam. Liq. 3 H226 F	lammable liquid and vapor.	
GHS05 Corr	rosion	
$\mathbf{\nabla}$		
Skin Corr. 1A H314 C	Causes severe skin burns and eye damage.	
	Causes severe skin burns and eye damage. Causes serious eye damage.	
Eye Dam. 1 H318 C		
Eye Dam. 1 H318 C GHS07 Skin Sens. 1 H317 M Label elements GHS label elements V Hazard pictograms GF	Causes serious eye damage. Aay cause an allergic skin reaction. Toid	
Eye Dam. 1 H318 C GHS07 Skin Sens. 1 H317 M Label elements GHS label elements V Hazard pictograms GF Signal word Danger Health Hazard-determ Methacrylic Acid Hydroxypropyl Methac	Causes serious eye damage. May cause an allergic skin reaction. Toid HS02, GHS05, GHS07 nining components of labeling:	
Eye Dam. 1 H318 C GHS07 Skin Sens. 1 H317 M Label elements GHS label elements V Hazard pictograms GH Signal word Danger Health Hazard-determ Methacrylic Acid	Causes serious eye damage. May cause an allergic skin reaction. Void HS02, GHS05, GHS07 nining components of labeling: crylate de	

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	skin burns and eye damage.
	allergic skin reaction.
· Precautionary	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+I	P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+I	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+P	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).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· Classification	
· NFPA ratings	(scale 0 - 4)
	Health = 3 $Fire = 3$
	Fire = 5 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH*3Health = *3FIRE3Fire = 3REACTIVITY0Reactivity = 0

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

27813-02-1	Hydroxypropyl Methacrylate	>10-≤25%
	() Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	-
64-17-5	Ethyl Alcohol	1-10%
	🚸 Flam. Liq. 2, H225	_
	Methacrylic Acid	≥5-≤10%

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		(Contd. of page 2)
2530-85-0	Silane	≥0-<10%
	◆ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
	Trade Secret	≥1-<5%
	Skin Corr. 1A, H314	
162881-26-7	Organophosphine Oxide	<i>≥</i> 0.1-<1%
	◆ Skin Sens. 1, 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. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. 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:

CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

• Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: 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.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- · 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.

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7 Handling and storage

- · Handling:
- *Precautions for safe handling* Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- *Keep respiratory protective device available.*
- · 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: See product labelling.
 Keep receptacle tightly sealed.
 Specific end use(s) Professional Orthodontic Primer and Sealant
- 8 Exposure controls/personal protection

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

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

64-17-5 Ethyl Alcohol

- PEL Long-term value: 1900 mg/m³, 1000 ppm
- REL Long-term value: 1900 mg/m³, 1000 ppm
- STEL Short-term value: 1000 mg/m³
- TLV Short-term value: 1880 mg/m³, 1000 ppm
- *TWA* Short-term value: 1900 mg/m³

79-41-4 Methacrylic Acid

- *REL* Long-term value: 70 mg/m³, 20 ppm Skin
- *TLV* Long-term value: 70 mg/m³, 20 ppm
- *Additional information:* The lists that were valid during the creation were used as basis.

· Exposure controls

- · 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.
- Avoid contact with the eyes.

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.

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· 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 is based on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and General Information	chemical properties
Appearance:	
Form:	Viscous
Color:	Yellow
Odor:	Acrylic
Odor threshold:	Not determined.
pH-value:	Not applicable (non-aqueous)
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined
Flash point:	37 °C
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.

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· Vapor pressure:	Not determined.	
Density:	Not determined	
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/w	ater): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined	
Solvent content:		
VOC content:	14.50 %	
	145.0 g/l / 1.21 lb/gal	
VOC (EC)	14.50 %	
Solids content:	<50.0 %	
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 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: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:		
ATE (Acu	te Toxicity I	Estimate)
Oral	LD50	17,667 mg/kg
Dermal	LD50	8,333 mg/kg (rabbit)
Inhalative	LC50/4 h	118 mg/l
64-17-5 Et	thyl Alcohol	I
Oral	LD50	5,600 mg/kg (Guinea pig)
		3,400 mg/kg (mouse)
		7,060 mg/kg (rat)
	LC50 Fish	>10,000 mg/l (Fish)
Inhalative	LC50/4 h	39 mg/l (mouse)
		(Contd. on page

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 on the skin: Strong caustic effect on skin and mucous membranes. on the eye: Strong caustic effect. Strong irritant with the danger of severe eye injury. Sensitization: Sensitization possible through skin contact. 	
OralLD501,250 mg/kg (mouse)1,060 mg/kg (rat)1,060 mg/kg (rat)1,200 mg/kg (rabbit)1,200 mg/kg (rabbit)DermalLD501,000 mg/kg (Guinea pig)500 mg/kg (rabbit)500 mg/kg (rabbit)InhalativeLC50/4 h7.1 mg/l (rat)162881-26-7 Organophosphine OxideOralLD50>2,000 mg/kg (rat)LC50 Fish>0.09 mg/l (Fish) (Toxicity to fish)DermalLD50>2,000 mg/kg (rat)CoralLD50>2,000 mg/kg (rat)Vermary irritant effect:•• on the skin:Strong caustic effect on skin and mucous membranes.• on the eye:Strong caustic effect.Strong irritant with the danger of severe eye injury.• Sensitization:Sensitization possible through skin contact.• Additional toxicological information: The product shows the following dangers according to internally approvide Corrosive IrritantSwallowing will lead to a strong caustic effect on mouth and throat and	
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Inhalative LC50/4 h 500 mg/kg (rabbit) Inhalative LC50/4 h 7.1 mg/l (rat) I62881-26-7 Organophosphine Oxide Oral LD50 >2,000 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat) Dermal Dermal LD50 >2,000 mg/kg (rat) • Primary irritant effect: • on the skin: Strong caustic effect on skin and mucous membranes. • on the skin: Strong caustic effect. Strong irritant with the danger of severe eye injury. • Sensitization: Sensitization possible through skin contact. • Additional toxicological information: The product shows the following dangers according to internally approve Corrosive Irritant Swallowing will lead to a strong caustic effect on mouth and throat and	
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· Carcinogenic categories	
· IARC (International Agency for Research on Cancer)	
64-17-5 Ethyl Alcohol	
· NTP (National Toxicology Program)	· · ·
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

· Toxicity

64-17-5 Ethyl Alcohol	
Algae Toxicity	1,000 mg/l (Algae)
79-41-4 Methacrylic Aci	d
EC50	17,000 mg/kg (Algae)
	<180 mg/kg (daphnia) (Toxicity to aquatic invertebrates)
162881-26-7 Organophe	osphine Oxide
EC50 (static)	>1.175 mg/kg (daphnia) (Toxicity to aquatic invertebrates)
Aqua toxicity	≥0.008 mg/l (daphnia) (Daphnia Magna Reproduction Test)
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Toxicity to A	quatic Plants (static) >0.26 mg/l (Plant) (Toxicity to algae)
	and degradability No further relevant information available.
	environmental systems:
	ative potential No further relevant information available.
	oil No further relevant information available.
	cological information:
General note	
	l class 1 (Self-assessment): slightly hazardous for water
	undiluted product or large quantities of it to reach ground water, water course or sewage system.
	ch bodies of water or drainage ditch undiluted or unneutralized.
	BT and vPvB assessment
PBT: Not ap	
vPvB: Not ap	•
	e effects No further relevant information available.
Disposal c	onsiderations
Waste treatm	ent methods
Recommend	ation:
Kecommena	disposed of together with household garbage. Do not allow product to reach source system
	lisposed of together with household garbage. Do not allow product to reach sewage system.
Must not be d	
Must not be a Uncleaned p	ackagings:
Must not be a Uncleaned p	
Must not be a Uncleaned p	ackagings:

· UN-Number · DOT, IMDG, IATA	UN2924
· UN proper shipping name	
·DOT	Flammable liquids, corrosive, n.o.s.
· IMDG, IATA	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHACRYLIC ACID, STABILIZED, Ethyl Alcohol)
· Transport hazard class(es)	
DOT	
RAMABLE LOOP	
· Class	3 Flammable liquids
· Label	3, 8
· IMDG	
· Class	3 Flammable liquids
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Label	3/8
IATA	
Class	3 Flammable liquids
Label	3 (8)
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not Applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	38
EMS Number:	F-E,S-C
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not Applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 5 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O., (METHACRYLIC ACID, STABILIZED, ETHYL ALCOHOL), 3 (8 II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):			
Trade Secret				
· Section 313 (Specific toxic chemical listings):			
1344-28-1 Aluminium Oxide				
• TSCA (Toxic Substances Control Act):				
	Hydroxypropyl Methacrylate	ACTIVE		
64-17-5	Ethyl Alcohol	ACTIVE		
79-41-4	Methacrylic Acid	ACTIVE		
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2530-85-0	Silane	ACTIV
	Trade Secret	ACTIV
162881-26-7	Organophosphine Oxide	ACTIV
Hazardous A	ir Pollutants	
None of the in	ngredients is listed.	
Proposition 6	5	
Chemicals kn	nown to cause cancer:	
None of the in	gredients is listed.	
Chemicals kn	nown to cause reproductive toxicity for females:	
None of the in	gredients is listed.	
Chemicals kn	own to cause reproductive toxicity for males:	
None of the in	ngredients is listed.	
Chemicals kn	own to cause developmental toxicity:	
64-17-5 Ethy	l Alcohol	
Carcinogenic	categories	
	nmental Protection Agency)	
None of the in	gredients is listed.	
ACGIH Carc	inogenicity (American Conference of Governmental Industrial Hygienists)	
64-17-5 Et	thyl Alcohol	A
1344-28-1 Al	luminium Oxide	A

·NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• Chemical safety assessment:

Device is biocompatible when used as directed by dental professionals per ISO 10993-1

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.

· Department issuing SDS: Environmental, Health, and Safety

- · Date of preparation / last revision 09/20/2021 / -
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods
- IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit

[·] Contact: Customer Service

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Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Flam. Liq. 4: Flammable liquids – Category 4 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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US