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Safety Data Sheet acc. to OSHA HCS

Printing date 09/16/2021

Reviewed on 02/26/2018

Product	identifier
Trade n	ame: EndoREZ TM Base
	number: SDS 20-001.10, 71040, 81225 tion of the substance / the mixture Professional Endodontic Canal Sealer
Manufa Ultrade 505 W. South Jo USA	of the supplier of the safety data sheet cturer/Supplier: nt Products Inc. Ultradent Drive (10200 S) ordan, UT 84095-3942 rdersupport@ultradent.com
Emerge	tion department: Customer Service ncy telephone number: REC (NORTH AMERICA) :(800) 424-9300 (INTERNATIONAL) : +(703) 527-3887
Classifi	cation of the substance or mixture
	cation of the substance or mixture GHS07 ns. 1 H317 May cause an allergic skin reaction.
Skin Ser Label et GHS la Hazard	GHS07 ns. 1 H317 May cause an allergic skin reaction.
Skin Ser Label et GHS lat Hazard Signal v Health Diurethy Triethyl Organo	GHS07 as. 1 H317 May cause an allergic skin reaction. Tements bel elements Void pictograms GHS07 word Warning Hazard-determining components of labeling: ane Dimethacrylate ene Glycol Dimethacrylate bohosphine Oxide
Skin Ser Label ei GHS la Hazard Signal v Health Diureth Triethyl Organoj Benzoyl Hazard May can	GHS07 as. 1 H317 May cause an allergic skin reaction. fements bel elements Void pictograms GHS07 word Warning Hazard-determining components of labeling: ane Dimethacrylate ene Glycol Dimethacrylate bohosphine Oxide Peroxide statements use an allergic skin reaction.
Skin Ser Skin Ser Label et GHS la Hazard Signal v Health Diureth Triethyl Organo Benzoyl Hazard May can Precaut P261 P272 P280	GHS07 as. 1 H317 May cause an allergic skin reaction. fements bel elements Void pictograms GHS07 word Warning Hazard-determining components of labeling: ane Dimethacrylate ene Glycol Dimethacrylate ohosphine Oxide Peroxide statements ise an allergic skin reaction. ise an allergic skin reaction. ise an allergic skin reaction. isonary statements Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
Skin Ser Skin Ser Label et GHS la Hazard Signal v Health Diureth Triethyl Organo Benzoyl Hazard May can Precaut P261 P272 P280 P302+F	GHS07 as. 1 H317 May cause an allergic skin reaction. Gements bel elements Void pictograms GHS07 word Warning Hazard-determining components of labeling: ane Dimethacrylate ene Glycol Dimethacrylate ohosphine Oxide Peroxide statements use an allergic skin reaction. ionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace.

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· Classification system: · NFPA ratings (scale 0 - 4)	
$\begin{array}{c} \textbf{Health} = 0\\ \textbf{Fire} = 0\\ \textbf{Reactivity} = 0 \end{array}$	
HMIS-ratings (scale 0 - 4)	
HEALTH 0 $Health = 0$ FIRE 0 $Fire = 0$ REACTIVITY 0 $Reactivity = 0$	

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous c	omponents:	
72869-86-4	Diurethane Dimethacrylate	>10- <i>≤</i> 25%
	♦ Skin Sens. 1, H317	
109-16-0	Triethylene Glycol Dimethacrylate	>10- ≤ 25%
	♦ Skin Sens. 1, H317	
	Trade Secret	1-10%
	Alternative CAS number: 7631-86-9	
	Trade Secret	≥1-<5%
	😔 Skin Corr. 1A, H314	
162881-26-7	Organophosphine Oxide	≥0.1-<1%
	♦ Skin Sens. 1, H317	
94-36-0	Benzoyl Peroxide	≥0.1-<1%
	🔗 🚸 Org. Perox. B, H241; 🚸 Eye Irrit. 2A, H319; Skin Sens. 1, H317	

4 First-aid measures

· Description of first aid measures

• 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.*
- After swallowing: If symptoms persist consult 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: Use fire fighting measures that suit the environment.

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• 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 Not required.
- 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). 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.

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: 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: See product labelling.
- · Specific end use(s) Professional Endodontic Canal Sealer

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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

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

Trade Secret

TWA Short-term value: 0.8 mg/m³

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

- · Exposure controls
- · 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.

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• 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 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: Goggles recommended during refilling.

· Body protection: Protective work clothing

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Pasty	
Color:	Yellow tint	
Odor:	Acrylic	
Odor threshold:	Not determined.	
pH-value:	Not applicable (non-aqueous)	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined	
Flash point:	Not applicable	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	445 °C	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C:	0 hPa	

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Density at 20 °C:	$1.7-1.8 \text{ g/cm}^3$	
Relative density	Not determined	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with	1	
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined	
Solvent content:		
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
VOC (EC)	0.00%	
Solids content:	<85.0 %	
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:

72869-86-4 Diurethane Dimethacrylate			
Oral	LD50	>5,000 mg/kg (rat)	
109-16-0	109-16-0 Triethylene Glycol Dimethacrylate		
Oral	LD50	>5,000 mg/kg (rat)	
	LC50 Fish	16.4 mg/l (Fish) (Toxicity to fish)	
Dermal	LD50	>2,000 mg/kg (mouse)	
Trade Sec	cret		
Oral	LD50	>15,000 mg/kg (mouse)	
		>3,300 mg/kg (rat)	
	LC50 Fish	>10,000 mg/l (Fish) (Toxicity to fish)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
Inhalative	e LC50/4 h	0.139 mg/l (rat)	

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162881-2	6-7 Organophosphine (Dxide
Oral	LD50	>2,000 mg/kg (rat)
	LC50 Fish	>0.09 mg/l (Fish) (Toxicity to fish)
Dermal	LD50	>2,000 mg/kg (rat)
94-36-0 E	Senzoyl Peroxide	
Oral	LD50	>5,000 mg/kg (rat)
	LC50 Fish	0.0602 mg/l (Fish) (Toxicity to fish)
Inhalative	e LD50 Inhalation 4hrs	24.3 mg/l (rat) (Testing of Chemicals Acute Toxicity Inhalation)
Sensitizat Additiona	ıl toxicological informa	ble through skin contact. tion: dangers according to internally approved calculation methods for preparations:
Sensitizat Additiona The produ Irritant Carcinog	tion: Sensitization possil al toxicological informa act shows the following o enic categories	<i>tion:</i> dangers according to internally approved calculation methods for preparations:
Sensitizat Additiona The produ Irritant Carcinog IARC (In	tion: Sensitization possil al toxicological informa act shows the following o enic categories ternational Agency for	<i>tion:</i> dangers according to internally approved calculation methods for preparations:
Sensitizat Additiona The produ Irritant Carcinog IARC (In	tion: Sensitization possil al toxicological informa act shows the following o enic categories	<i>tion:</i> dangers according to internally approved calculation methods for preparations:
Sensitizat Additiona The produ Irritant Carcinog IARC (In 94-36-0	tion: Sensitization possil al toxicological informa act shows the following o enic categories ternational Agency for	tion: dangers according to internally approved calculation methods for preparations: Research on Cancer) 3
Sensitizat Additiona The produ Irritant Carcinog IARC (In 94-36-0 128-37-0	tion: Sensitization possib al toxicological informa act shows the following of enic categories ternational Agency for Benzoyl Peroxide	tion: dangers according to internally approved calculation methods for preparations: Research on Cancer) gene 3 3
Sensitizat Additiona The produ Irritant Carcinog IARC (In 94-36-0 128-37-0 NTP (Nat	tion: Sensitization possil al toxicological informa act shows the following of enic categories ternational Agency for Benzoyl Peroxide Butylated Hydroxytolue	tion: dangers according to internally approved calculation methods for preparations: Research on Cancer) gene 3 3
Sensitizat Additiona The produ Irritant Carcinog IARC (In 94-36-0 128-37-0 NTP (Nau None of th	tion: Sensitization possil al toxicological informa act shows the following of enic categories ternational Agency for Benzoyl Peroxide Butylated Hydroxytolue tional Toxicology Progr he ingredients is listed.	tion: dangers according to internally approved calculation methods for preparations: Research on Cancer) gene 3 3

12 Ecological information

· Toxicity

72869-86-4 Diurethane Di	methacrylate
EC50	>0.6 mg/kg (Algae)
Biodegradability	28 days (Aerobic) (Biodegradability testing)
109-16-0 Triethylene Glyc	ol Dimethacrylate
EC50	>100 mg/kg (Algae)
Biodegradability	28 days (Aerobic) (Biodegradability testing)
Aqua toxicity	32 mg/l (daphnia) (No Observed Effect Concentration)
Trade Secret	
EC50	>1,000 mg/kg (daphnia)
162881-26-7 Organophosp	phine Oxide
EC50 (static)	>1.175 mg/kg (daphnia) (Toxicity to aquatic invertebrates)
Aqua toxicity	≥0.008 mg/l (daphnia) (Daphnia Magna Reproduction Test)
Toxicity to Aquatic Plants ((static) >0.26 mg/l (Plant) (Toxicity to algae)
94-36-0 Benzoyl Peroxide	
Algae Toxicity	0.0711 mg/l (Algae) (Toxicity to algae)
	0.11 mg/l (daphnia) (Toxicity to aquatic invertebrates)

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· 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 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. • 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:

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.

4 Transport information	
· UN-Number · DOT, ADN, IMDG, IATA	Not Regulated
· UN proper shipping name · DOT, ADN, IMDG, IATA	Not Regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	Not Regulated
· Packing group · DOT, IMDG, IATA	Not Regulated
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":	Not Regulated

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):

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Section 313 (Specific toxic chemical listings):	
94-36-0 Benzoyl Peroxide	
TSCA (Toxic Substances Control Act):	
72869-86-4 Diurethane Dimethacrylate	ACTIVI
109-16-0 Triethylene Glycol Dimethacrylate	ACTIVI
Trade Secret	ACTIVI
162881-26-7 Organophosphine Oxide	ACTIVI
94-36-0 Benzoyl Peroxide	ACTIVI
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.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
ACGIH Carcinogenicity (American Conference of Governmental Industrial Hygienists)	
94-36-0 Benzoyl Peroxide	A
128-37-0 Butylated Hydroxytoluene	$A \cdot$
NIOSH-Ca (National Institute for Occupational Safety and Health)	· · ·
None of the ingredients is listed.	

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

· Contact: Customer Service

- · Date of preparation / last revision 09/16/2021 / -
- Abbreviations and acronyms:
 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

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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 Org. Perox. B: Organic peroxides – Type B Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1 (Contd. of page 8)

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