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US

Safety Data Sheet acc. to OSHA HCS

Printing date 08/23/2022

Reviewed on 08/23/2022

Product id	entifier	
Trade nan	e: <u>Ultradent<sup>TM</sup> Universal Dentin Sealant</u>	
	nber: SDS 142-001.08, 10344 1 of the substance / the mixture Professional Dentin Seal	lant
<b>Manufacti</b> Ultradent 1 505 W. Ult South Jora USA	the supplier of the safety data sheet orer/Supplier: Products Inc. radent Drive (10200 S) an, UT 84095-3942 rsupport@ultradent.com	
Emergenc	n department: Customer Service v telephone number: C (NORTH AMERICA) :(800) 424-9300 (INTERNATIONAL) : +(703) 527-3887	
	) identification ion of the substance or mixture GHS02 Flame	

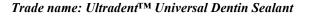
pel elements IS label elements Void	· Label elements
zard pictograms GHS02	
nal word Danger	• Signal word Da
zard statements	• Hazard stateme
25 Highly flammable liquid and vapor.	H225 Highly fla
cautionary statements	· Precautionary
0 Keep away from heat/sparks/open flames/hot surfaces No smoking.	P210
	P233
10 Ground/bond container and receiving equipment.	P240
Use explosion-proof electrical/ventilating/lighting/equipment.	P241
12 Use only non-sparking tools.	P242
<i>Take precautionary measures against static discharge.</i>	P243
<i>Wear protective gloves/protective clothing/eye protection/face protection.</i>	P280
03+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.	P303+P361+P
70+P378 In case of fire: Use CO2, powder or water spray to extinguish.	P370+P378
	P403+P235
1 1	P501
(Contd. on page 2)	

≥0-<90%

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### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

64-17-5 Ethyl Alcohol

### 4 First-aid measures

### · Description of first aid measures

• General information:

Show this safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

Immediately remove any clothing soiled by the product.

• After inhalation:

Immediate medical attention is required. Move to fresh air. If not breathing, give artificial respiration. Consult a physician.

• After skin contact:

Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Use a mild soap if available. Call a physician if irritation develops or persists.

Immediately rinse with water.

• After eye contact:

Remove contact lenses, if present. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.

• After swallowing:

Rinse mouth with water and afterwards drink plenty of water or milk. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately.

· Information for doctor:

- · Most important symptoms and effects, both acute and delayed
- See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

· Indication of any immediate medical attention and special treatment needed Treat symptomatically.

# 5 Fire-fighting measures

· Extinguishing media

• Suitable extinguishing agents: Use water spray, fog, carbon dioxide  $(CO_2)$ , foam or dry chemical.

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· Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions. Flash back possible over considerable distance. Hazardous Combustion Products: No information available.

Explosion Data:

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

• Advice for firefighters

Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6 Accidental release measures

# Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Wear protective equipment. Keep unprotected persons away. Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological information. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Methods for Containment: Prevent further leakage or spillage if safe to properly labeled containers

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

Advice on safe handling: Keep containers tightly closed in a dry, cool and well-ventilated place. Hygiene measures: When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

• Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles:

Storage Conditions: Keep locked up or in an area accessible only to qualified or authorized persons. Store between 41 and 77 °F (5 - 25° C) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in original container.

Store in a cool location.

• Information about storage in one common storage facility: Not required.

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• Further information about storage conditions: See product labelling. Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) Professional Dentin 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:

### 64-17-5 Ethyl Alcohol

PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

STEL Short-term value: 1000 mg/m<sup>3</sup>

*TLV* Short-term value: 1000 ppm A3

TWA Short-term value: 1900 mg/m<sup>3</sup>

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

• Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:

Engineering Measures: Ensure adequate ventilation, especially in confined areas. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

· Breathing equipment:

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

• 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.

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• *Eye protection:* Safety glasses with side shields.



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties
General Information	
Appearance:	T · · · 1
Form:	Liquid
Color:	Yellow-brown Pleasant
Odor: Odor threshold:	Not determined.
pH-value:	Not determined.
1	Tor accommed.
Change in condition	
Melting point/Melting range:	-114 °C
Boiling point/Boiling range:	78 °C
Flash point:	11 °C
Flammability (solid, gaseous):	Highly flammable.
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.
Vapor pressure at 20 °C:	59.6 hPa
Density at 20 °C:	$0.916-1.02 \text{ g/cm}^3$
Relative density	Not determined
Vapor density at 20 °C	$1.59 \text{ g/cm}^3$
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wat	ter): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined
Solvent content:	
VOC content:	≥50% - ≤70 %
	641.2-714 g/l / 5.35-5.96 lb/gal

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VOC (EC)	≥50% - ≤70%	
Solids content:	≥30 - ≤50 %	
• 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: Stable under recommended storage conditions

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Contact with acetyl chloride and a wide range of oxidizers.
- · Incompatible materials: Strong oxidizing agents
- · Hazardous decomposition products: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

# **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

 • LD/LC50 values that are relevant for classification:

 64-17-5 Ethyl Alcohol

 Oral
 LD50
 5,600 mg/kg (Guinea pig)

 3,400 mg/kg (mouse)
 3,400 mg/kg (mouse)

 7,060 mg/kg (rat)
 7,060 mg/l (Fish)

 Inhalative
 LC50/4 h
 39 mg/l (mouse)

 20,000 mg/l (rat)
 20,000 mg/l (rat)

### on the skin:

Product Information

• May cause irritation and defatting of skin on prolonged contact.

Component Information

• No information available

### • on the eye:

Product Information

• Liquid or vapor may cause irritation.

Component Information

• No information available

### · Sensitization:

Product Information

• Exposure to over 1000 ppm may cause headache, drowsiness, vomiting, coughing, dizziness or stupor.

Component Information

• No information available

• Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

All components have the value 1.

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·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

• Aquatic toxicity:

64-17-5 Ethyl Alcohol Algae Toxicity 1,000 mg/l (Algae)

Demister as and doors dability No infor

- **Persistence and degradability** No information available • **Behavior in environmental systems:**
- · Bioaccumulative potential
- Discharge into the environment must be avoided

2	
Chemical Name	log Pow
Ethanol	-0.32

- 64-17-5
- · Mobility in soil No 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 Discharge into the environment must be avoided

# **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Dispose of contents/container in accordance with international, federal, state, and local regulations.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, IMDG, IATA	UN1866	
$\cdot$ UN proper shipping name		
$\cdot DOT$	Resin solution	
· IMDG, IATA	RESIN SOLUTION	

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Transport hazard class(es)	
DOT	
RAMARBLE LIQUO	
3	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
3	
Class	3 Flammable liquids
· Label	3
Packing group	
· DOT, IMDG, IATA	II
Environmental hazards:	Not Applicable.
Special precautions for user	Warning: Flammable liquids
• Hazard identification number (Kemler code):	
· EMS Number: · Stowage Category	F-E, <u>S-E</u> B
• Transport in bulk according to Annex II of	5
MARPOL73/78 and the IBC Code	Not Applicable.
Transport/Additional information:	
· DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
2	On cargo aircraft only: 60 L
·IMDG	
· Limited quantities (LQ)	5L
· 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 1866 RESIN SOLUTION, 3, 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):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

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• TSCA (Toxic Substances Control Act): All components have the value 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:

All ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· ACGIH Carcinogenicity (American Conference of Governmental Industrial Hygienists)

All components have the value A3.

·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

· Contact: Customer Service · Date of preparation / last revision 08/23/2022 / -· 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 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 Flammable Liquids 2: Flammable liquids – Category 2

• \* Data compared to the previous version altered.