Trade Name: Eugenol USP

1.0	Commercial Product Name and Supplier			
1.1	Commercial product name / designation	Eugenol USP		
1.2	Application / Use	Dental material for use by	dental professional on	ıly.
1.2.2	SIC	851 Human health activity	·	•
1.2.3	Use Category	55		
1.3	Manufacturer			
	Pulpdent Corporation 80 Oakland Street, P.O. Box 780 Watertown, MA 02472 USA	Telephone: 1 617 926-6666 Email: Pulpdent@pulpdent		262
1.4	Emergency Telephone Number	1-800-535-5053 (24 Hour /	USA)	
1.5	Authorized European Representative	Advena Limited Tower Business Centre, 2r Tower Street, Swatar, BKR 4013 Malta	d Floor,	
	UK Responsible Person	Advena Limited Pure Offices, Plato Close Warwick, CV34 6WE Unite	d Kingdom	
	CH Authorized Representative	MedEnvoy Switzerland Gotthardstrasse 28, 6302 2	Zug, Switzerland	
2.0	Hazards Identification			
2.1	Classification			
2.1.1	Classification according to Regulation (EC) No 1272/2008 [CLP]	Hazard Class Acute toxicity, Oral Eye irritation STOT SE Skin irritation Skin sensitization Respiratory sensitization Acute aquatic toxicity	Hazard Category 4 2A 3 2 1 1 3	Hazard Statement H302 H319 H335 H315 H317 H334 H402
2.1.2	Classification according to Directive 67/548/EEC	Irritant; Xi; R 36/37/38-42/	-	
2.1.2	OHO L. L. L. E. L.		.5 (500 52011011 1011	oan toxt of flot prilado

2.2 GHS Label Elements

Hazard Pictograms





Signal Word: **DANGER**

Restricted to use by dental professional only.

Hazard Statements

H302: Harmful if swallowed H315: Causes skin irritation

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

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H402: Harmful to aquatic life **Precautionary Statements** P261: Avoid breathing vapor.

P280: Wear protective gloves and eye protection

P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342+P311: If experiencing respiratory symptoms, call a poison center or doctor/physician

	P342+P311: If experiencing respiratory symptoms, call a poison center or doctor/physician.					
3.0	Composition					
3.1	Chemical characterization of the preparation:					
3.2	Hazardous ingredients					
	CAS Number	Name of the Ingredient	Concentration	Classification per 67/548/EEC	Classification per Regulation (EC) No.1272/2008 (CLP).	
	97-53-0	Eugenol [2-Methoxy-4-(2- propenyl) phenol]	85-95%	Irritant; Xi, R 36/37/38-42/43	Acute toxicity, Oral 4 Eye irritation 2A STOT SE 3 Skin irritation 2 Skin sensitization 1 Respiratory sensitization 1 Acute aquatic toxicity 3	
4.0	First Aid Measures					
4.1	General Informa	ation	Consult a physician. May be irritating to eyes, respiratory system and skin. Do not inhale vapors. Liquid may cause sensitization by skin contact or inhalation. Show this safety data sheet to medical personnel.			
4.2	Inhalation		Move to fresh air. If necessary, administer oxygen / artificial respiration and seek medical attention.			
4.3	Skin Contact			Take off contaminated clothing. Wash skin thoroughly with soap and water for 15 minutes. Seek medical attention.		
4.4	Eye Contact			Keep eyelids apart and flush with running water for 15+ minutes. Get medical attention. Continue rinsing eyes during transport to hospital.		
4.5	Ingestion			Rinse mouth with water. Do not induce vomiting. Get immediate medical attention. May be irritating to mucous membranes.		
4.6	Precautions for first responders Ventilate the area. Wear eye and skin protection.		in protection.			
4.7	Information for physicians					
	Symptoms		Irritation of	Irritation or redness in eyes, throat or on skin. Allergy or asthma symptoms		
	Hazards		May be irritating to eyes, respiratory system and skin. May cause sensitization by skin contact or inhalation.			
	Treatment		As above	under First Aid.		
5.0	Fire Fighting N	l easures				
5.1	Suitable extingu	Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			oam, dry chemical or carbon dioxide.	
5.2	Extinguishing m	nedia to avoid	None			
5.3	Special exposu	re hazards in a fire	Burning liberates carbon monoxide, carbon dioxide and smoke.			

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5.4	Special protective equipment for fire-fighters	A self-contained breathing apparatus should be worn by firefighting personnel. Cool exposed containers with water spray.
6.0	Accidental Release Measures	
6.1 6.2	Personal precautions. Environmental precautions	Ventilate area. Wear gloves, lab coat and safety glasses. Avoid breathing vapors, mist or gas. Evacuate personnel to safe areas. Contain spilled material. Do not allow discharge into drains or the environment. Follow all government regulations.
6.3	Method for clean up	Soak up with inert, absorbent material (paper towels, etc.). Collect for disposal in a covered container kept in a cool place. Wash area of spill with soap and water, as the surface will be very slippery.
7.0	Handling and Storage	
7.1	Handling	Follow good hygiene practices. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Cap immediately after use.
7.2	Storage	Keep containers tightly closed. Store in original container at cool room temperature (<25°C) and in a dry, well-ventilated area. Avoid direct, strong light, sources of ignition and extremes of temperature (>27°C/80°F, <5°C/40°F). Provided that the material has been stored properly, shelf life for unopened eugenol is three years from date of manufacture.
7.3	Specific uses	
8.0	Exposure Controls / Personal Protection	
8.1	Exposure limit values	
8.2	Exposure controls	Contains no substances with occupational exposure elements.
8.2.1	Occupational exposure controls	
8.2.1.1	Respiratory protection	Good general ventilation is sufficient to control any airborne vapors during normal conditions of use.
8.2.1.2	Hand protection	Handle with gloves to limit contact with material.
8.2.1.3	Eye protection	Safety glasses and/or face shield
8.2.1.4	Skin protection	Wear a lab coat. Practice good personal hygiene and safety practices to protect from unnecessary exposure to material.
8.2.1.5	Other controls	Emergency eye wash fountain. Wash hands after use.
8.2.2	Environmental exposure controls	Should not be discharged into drains or the environment.
9.0	Physical and Chemical Properties	
9.1	Characteristics	Clear, oily liquid
9.1.1	Appearance /Color / Physical state	Colorless to pale yellow
9.1.2	Odor	Cloves
9.2	Important health, safety and environmental infe	ormation
9.2.1	pH	7.0
9.2.2	Boiling point	253°C
9.2.3	Flash point	112°C

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9.2.4	Flammability (solid, gas)	Not applicable
9.2.5	Explosive properties	Not applicable
9.2.6	Oxidizing properties	Not an oxygen donor
9.2.7	Vapor pressure	< 0.1 mm Hg
9.2.8	Specific gravity	1.064 g/cc ³
9.2.9	Solubility in water	Slight
9.2.10	Partition coefficient (n-octanol/water)	log Pow: 2.7
9.2.11	Viscosity	Not determined
9.2.12	Vapor density	Not determined
9.2.13	Evaporation rate	Not determined
10.0	Stability and reactivity	
10.1	Conditions to avoid	Temperature > 38°C, light, air
10.2	Materials to avoid	Strong oxidizing agents, ferric chloride, potassium permanganate.
10.3	Hazardous decomposition products	Carbon monoxide and carbon dioxide.
10.4	Further information	Stable under recommended storage conditions.
11.0	Toxicological information	
11.1	Acute toxicity	LD ₅₀ Oral – rat: 1930 mg/kg
11.1 11.2	Acute toxicity Irritation and corrosiveness	LD ₅₀ Oral – rat: 1930 mg/kg May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure.
	·	May be irritating to eyes, respiratory system or skin on contact or
11.2	Irritation and corrosiveness	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure.
11.2 11.3	Irritation and corrosiveness Sensitization	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure. May be sensitizing by inhalation or skin contact. Prolonged exposure may cause skin, eye and respiratory
11.211.311.4	Irritation and corrosiveness Sensitization Sub-acute, sub-chronic and prolonged toxicity Carcinogenicity, Mutagenicity, Reproductive	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure. May be sensitizing by inhalation or skin contact. Prolonged exposure may cause skin, eye and respiratory irritation.
11.2 11.3 11.4 11.5	Irritation and corrosiveness Sensitization Sub-acute, sub-chronic and prolonged toxicity Carcinogenicity, Mutagenicity, Reproductive Toxicity	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure. May be sensitizing by inhalation or skin contact. Prolonged exposure may cause skin, eye and respiratory irritation. None known
11.2 11.3 11.4 11.5 11.6	Irritation and corrosiveness Sensitization Sub-acute, sub-chronic and prolonged toxicity Carcinogenicity, Mutagenicity, Reproductive Toxicity Empirical data	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure. May be sensitizing by inhalation or skin contact. Prolonged exposure may cause skin, eye and respiratory irritation. None known
11.2 11.3 11.4 11.5 11.6 11.7	Irritation and corrosiveness Sensitization Sub-acute, sub-chronic and prolonged toxicity Carcinogenicity, Mutagenicity, Reproductive Toxicity Empirical data Clinical experience	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure. May be sensitizing by inhalation or skin contact. Prolonged exposure may cause skin, eye and respiratory irritation. None known
11.2 11.3 11.4 11.5 11.6 11.7	Irritation and corrosiveness Sensitization Sub-acute, sub-chronic and prolonged toxicity Carcinogenicity, Mutagenicity, Reproductive Toxicity Empirical data Clinical experience Ecological Information	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure. May be sensitizing by inhalation or skin contact. Prolonged exposure may cause skin, eye and respiratory irritation. None known Not available
11.2 11.3 11.4 11.5 11.6 11.7 12.0 12.1	Irritation and corrosiveness Sensitization Sub-acute, sub-chronic and prolonged toxicity Carcinogenicity, Mutagenicity, Reproductive Toxicity Empirical data Clinical experience Ecological Information Ecotoxicity	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure. May be sensitizing by inhalation or skin contact. Prolonged exposure may cause skin, eye and respiratory irritation. None known Not available
11.2 11.3 11.4 11.5 11.6 11.7 12.0 12.1 13.0	Irritation and corrosiveness Sensitization Sub-acute, sub-chronic and prolonged toxicity Carcinogenicity, Mutagenicity, Reproductive Toxicity Empirical data Clinical experience Ecological Information Ecotoxicity Disposal Considerations	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure. May be sensitizing by inhalation or skin contact. Prolonged exposure may cause skin, eye and respiratory irritation. None known Not available Harmful to aquatic life. Follow all local and national government regulations in disposing
11.2 11.3 11.4 11.5 11.6 11.7 12.0 12.1 13.0 13.1	Irritation and corrosiveness Sensitization Sub-acute, sub-chronic and prolonged toxicity Carcinogenicity, Mutagenicity, Reproductive Toxicity Empirical data Clinical experience Ecological Information Ecotoxicity Disposal Considerations Regulations	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure. May be sensitizing by inhalation or skin contact. Prolonged exposure may cause skin, eye and respiratory irritation. None known Not available Harmful to aquatic life. Follow all local and national government regulations in disposing
11.2 11.3 11.4 11.5 11.6 11.7 12.0 12.1 13.0 13.1	Irritation and corrosiveness Sensitization Sub-acute, sub-chronic and prolonged toxicity Carcinogenicity, Mutagenicity, Reproductive Toxicity Empirical data Clinical experience Ecological Information Ecotoxicity Disposal Considerations Regulations Transport Information	May be irritating to eyes, respiratory system or skin on contact or with prolonged exposure. May be sensitizing by inhalation or skin contact. Prolonged exposure may cause skin, eye and respiratory irritation. None known Not available Harmful to aquatic life. Follow all local and national government regulations in disposing material or contaminated packaging.

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15.2 SARA 302 Components

Not subject to reporting requirement of SARA, Title III, Section 302

15.3 SARA 313 Components

Does not exceed the threshold (De Minimis) reporting levels of SARA, Title III, Section 313.

15.4 SARA 311/312 Hazards

Acute health hazard, Chronic health hazard

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16.0	Other information	
16.1	List of relevant R phrases	R36/37/38, Irritating to eyes, respiratory system and skin. R42/43, May be sensitizing by inhalation or skin contact.
16.2	Hazard Statements	H302: Harmful if swallowed H315: Causes skin irritation H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H402: Harmful to aquatic life
16.3	Precautionary Statements	P261: Avoid breathing vapor. P280: Wear protective gloves and eye protection P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P342+P311: If experiencing respiratory symptoms, call a poison center or doctor/physician.
16.4	Restrictions on use	None
16.5	Further information	The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which Pulpdent Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.
16.5	Sources of key data	National Institute for Occupational Safety (NIOSH) US Occupational Safety and Health Administration (OSHA) Eur-Lex European Union Law: Regulation (EC) No. 1272/2008 (CLP) and Regulation (EC) No. 1907/2006 (REACH). Guidance on the compilation of safety data sheets. Version 1.1; December 2011. European Chemicals Agency
16.6	Information which has been added, deleted or revised.	This Safety Data Sheet has been revised to meet the requirements of GHS SDS format and Regulations (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH). Specifically Sections 2.1, 2.2, 3.2, 16.2, 16.3 have been modified.