


Safety Data SheetTrade Name: **WONDER ORANGE**

1.0 Commercial Product Name and Supplier				
1.1	Commercial product name / designation	WONDER ORANGE		
1.2	Application / Use	Dental solvent		
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 / Fax: 1 617 926-6262 Email: Pulpdent@pulpdent.com		
1.4	Emergency Telephone Number	1-800-535-5053 (24 Hour / USA)		
2.0 Hazards Identification				
2.1	Classification			
2.1.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statement</u>
		Eye irritation	2	H319
		STOT SE	3	H335
		Skin irritation	2	H315
		Skin sensitization	1	H317
2.1.2	Classification according to Directive 67/548/EEC	Irritant; Xi; R 36/37/38-43 (See SECTION 16 for full text of risk phrases)		
2.2	GHS Label Elements			
	Hazard Pictograms			
				
	Signal Word: Warning			
	Restricted to use by dental professional only			
	Hazard Statements			
	H319: Eye irritation. 2. May cause eye irritation.			
	H335: STOT SE. 3. May cause respiratory irritation.			
	H315: Skin irritation. 2. May cause skin irritation.			
	H317: Sensitization. 1. May cause an allergic skin reaction.			
	Precautionary Statements			
	P261: Avoid breathing vapor.			
	P280: Wear protective gloves and eye protection			
	P305+P351: If in eyes, rinse cautiously with water for several minutes.			
	P337+P313: If eye irritation persists, get medical advice/attention.			
	P302+P352: If on skin, wash with plenty of soap and water.			
	P333+P313: If irritation or rash occurs, get medical advice/attention.			
	P410+P411: Protect from sunlight. Store at temperature not exceeding 27°C / 80°F.			
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).

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5989-27-5	d-Limonene	90%	Irritant; Xi; R 36/37/38 - 43	H319: Eye irritation. 2. H335: STOT SE. 3. H315: Skin irritation. 2 H317: Sensitization. 1.
4.0 First Aid Measures				
4.1	General Information	May be irritating to eyes or skin on contact and respiratory system with prolonged exposure. May be an allergen for certain susceptible individuals.		
4.2	Inhalation	Move person to fresh air. If effects occur, seek medical attention.		
4.3	Skin Contact	Wash skin thoroughly with soap and water.		
4.4	Eye Contact	Keep eyelids apart; flush with running water for 15+ minutes. Remove contact lenses after several minutes. Consult an ophthalmologist for persistent irritation		
4.5	Ingestion	Large amounts: contact Poison Control Center or physician. Induce vomiting only on medical advice.		
4.6	Precautions for first responders	Wear safety glasses and gloves.		
4.7	Information for physicians			
	Symptoms	Mild irritation/redness in eyes after contact.		
	Hazards	May be irritating to eyes on contact. May be an allergen for certain susceptible individuals.		
	Treatment	Same as above under First Aid.		
5.0 Fire Fighting Measures				
5.1	Suitable extinguishing media	Class B fires: carbon dioxide or dry chemical extinguishers. Water spray may be used to keep exposed containers cool.		
5.2	Extinguishing media to avoid	Avoid direct contact with water.		
5.3	Special exposure hazards in a fire	Carbon monoxide, carbon dioxide and dense black smoke may be generated.		
5.4	Special protective equipment for fire-fighters	Self-contained breathing apparatus		
6.0 Accidental Release Measures				
6.1	Personal precautions.	Wear safety glasses, gloves, and lab coat.		
6.2	Environmental precautions	Follow all government regulations.		
6.3	Method for clean up	Absorb or wipe up spill with paper towels or disposable cloths. Collect for disposal in a covered container. Wash area of spill with soap and water as it may remain slippery.		
7.0 Handling and Storage				
7.1	Handling	Follow good hygiene practices. Wear gloves and safety glasses. Cap immediately after use		
7.2	Storage	Store product tightly capped in original container at cool room temperature (<25°C). Shelf life for unopened product is two years from date of manufacture, provided proper storage.		
7.3	Specific uses	Dental solvent		

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8.0 Exposure Controls / Personal Protection		
8.1	Exposure limit values	PEL: 150 ppm. TLV: 150 ppm
8.2	Exposure controls	
8.2.1	Occupational exposure controls	No special equipment required.
8.2.1.1	Respiratory protection	None required under normal conditions of use of this product.
8.2.1.2	Hand protection	Usual surgical gloves are adequate under normal conditions of use.
8.2.1.3	Eye protection	Safety glasses
8.2.1.4	Skin protection	Good personal hygiene, lab coat and gloves. Wash hands after use.
8.2.1.5	Other controls	Emergency eye wash fountain should be close by.
8.2.2	Environmental exposure controls	Follow all government regulations.
9.0 Physical and Chemical Properties		
9.1	Characteristics	
9.1.1	Appearance / Color / Physical state	Transparent, pale yellow, oily liquid
9.1.2	Odor	Fresh orange peel
9.2	Important health, safety and environmental information	
9.2.1	pH	Not determined
9.2.2	Boiling point	311-333°F / 155°C
9.2.3	Flash point	120-130°F / 47°C
9.2.4	Flammability (solid, gas)	Not applicable
9.2.5	Explosive properties	Not applicable
9.2.6	Oxidizing properties	Not applicable
9.2.7	Vapor pressure	3 mm Hg @ 25°C
9.2.8	Specific gravity	0.844
9.2.9	Solubility in water	Insoluble
9.2.10	Partition coefficient	Not determined
9.2.11	Viscosity	Not determined
9.2.12	Vapor density	4.7
9.2.13	Evaporation rate	0.25
10.0 Stability and reactivity		
10.1	Conditions to avoid	Temperatures >27°C / 80°F; flammable or explosive chemicals
10.2	Materials to avoid	Strong oxidants, inorganic acids, organic acids, peroxides, halogens, vinyl chloride, iodine pentafluoride, reactive monomers
10.3	Hazardous decomposition products	Carbon monoxide, carbon dioxide,
10.4	Further information	Stable material
11.0 Toxicological information		
11.1	Acute toxicity	Not toxic.

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11.2	Irritation and corrosiveness	May be irritating to eyes or skin on contact and respiratory system with prolonged exposure.
11.3	Sensitization	May be an allergen for certain susceptible individuals.
11.4	Sub-acute, sub-chronic and prolonged toxicity	None known
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known
11.6	Empirical data	Not available
11.7	Clinical experience	There have been no reports of adverse events over 20 years of use.
12.0	Ecological Information	
12.1	Ecotoxicity	Follow all government regulations.
13.0	Disposal Considerations	
13.1	Regulations	Follow all local and national government regulations.
14.0	Transport Information	
14.1	Restrictions	Class 3, Packing Group III – Combustible Liquid, n.o.s.; UN 2319
15.0	Regulatory Information	
15.1	EU	Not a medical device
15.2	US FDA	Class I Medical Device
15.3	Health Canada	Class I Medical Device
16.0	Other information	
16.1	List of relevant R phrases	R36/37/38, Irritating to eyes, respiratory system and skin. R43, Sensitizing by skin contact.
16.2	Hazard Statements	H319: Eye irritation. Hazard category 2. H335: Specific Target Organ Toxicity - Single exposure; hazard category. 3. Respiratory tract irritation. H315: Skin irritation. Hazard category 2. H317: Skin Sensitization. Hazard category 1.
16.3	Precautionary Statements	P261: Avoid breathing vapor. P280: Wear protective gloves and eye protection P305 + P351: If in eyes, rinse cautiously with water for several minutes. P337 + P313: If eye irritation persists, get medical advice/attention. P302 + P352: If on skin, wash with plenty of soap and water. P333 + P313: If irritation or rash occurs, get medical advice / attention. P410 + P411: Protect from sunlight. Store at temperature not exceeding 27°C / 80°F.
16.4	Restrictions on use	Puldent products are for use by dental professionals only.

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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.
16.6	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
16.7	Information which has been added, deleted or revised.	This Safety Data Sheet has been revised to meet the requirements of the 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.
