

# DENTSPLY International

## DENTSPLY PROFESSIONAL

### Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

Date Issued: 16 March 2015  
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Revision Number: 1

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1 Product Identifier:

**Trade Name (as labeled):** Captivate by NUPRO™ Tooth Whitening Trays  
**Part/Item Number:** 130195

##### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

**Recommended Use:** Tooth Whitening  
**Restrictions on Use:** For Professional Use Only. Do not use on persons hypersensitive to hydrogen peroxide or other formula ingredients.

##### 1.3 Details of the Supplier of the Safety Data Sheet:

**Manufacturer/Supplier Name:** DENTSPLY Professional  
**Manufacturer/Supplier Address:** 1301 Smile Way  
York, PA 17404  
**Manufacturer/Supplier Telephone Number:** 800-989-8826 or 717-767-8502 (Product Information)  
**Email address:** [ProfessionalMSDS@dentsply.com](mailto:ProfessionalMSDS@dentsply.com)

##### 1.4 Emergency Telephone Number:

**Transportation Emergency Contact Number:** 800-424-9300 Chemtrec

#### 2. HAZARDS IDENTIFICATION

##### 2.1 Classification of the Substance or Mixture:

GHS Classification:		
Health	Environmental	Physical
Eye Corrosion Category 1 (H318) Skin Irritant Category 2 (H315)	Not Hazardous	Oxidizing Liquid Category 3 (H272)

**EU Classification:** Irritant (Xi), Harmful (Xn) R22, R41

##### 2.2 Label Elements:



**Signal Word:** Danger

Hazard Phrases	Precautionary Phrases
H272 May intensify fire; Oxidizer. H315 Causes skin irritation. H318 Causes serious eye damage.	P210 Keep away from heat, sparks, open flames, and hot surfaces. –No smoking. P220 Store away from clothing and combustible materials. P221 Take any precaution to avoid mixing with combustibles. P264 Wash thoroughly after handling. P280 Wear protective gloves, protective clothing, eye protections and face 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. P310 Immediately call a POISON CENTER or doctor. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical attention. P362 Take off contaminated clothing and wash before reuse. P370+P378 In case of fire: Use large amounts of water for extinction. P501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixture:

Hazardous Components	C.A.S. #	EINECS #	Classification	WT %
Non-Hazardous Ingredients and Water	Mixture	Mixture	Not Applicable	Balance
Hydrogen Peroxide	7722-84-1	231-765-0	C, O, Xn R5, R8, R20/22, R35 Oxid. Liq. Cat 1, H271 Acute Tox. Cat 4, H302, H332 Skin Corr. Cat 1A, H314 Eye Dam. Cat 1, H318 Aquatic Chronic Cat 3, H412	<15

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS and EU Classifications.

### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures:

Eye	Immediately flush eyes with plenty of water for at least 20 minutes while holding the eyelids apart. Remove contact lenses, if present and easy to do. Get immediate medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation occurs and persists. Launder clothing before re-use.

<b>Inhalation</b>	Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms of exposure persist.
<b>Ingestion</b>	Do not induce vomiting. If conscious, rinse mouth with a small amount of water and give one glass of water to dilute. Never give anything by mouth to an unconscious or drowsy person. Get medical attention.

**4.2 Most Important Symptoms and Effects, Both Acute and Delayed:**

May cause severe eye irritation with possible eye damage. May cause skin irritation with whitening of the skin. Inhalation of vapors may cause severe mucous membrane and respiratory irritation. If swallowed, may cause intestinal irritation and discomfort.

**4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:**

Immediate medical attention is required for eye contact.

**Note to Physicians (Treatment, Testing, and Monitoring):** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**5.1 Extinguishing Media:** Use large quantities of water to extinguish fire.

**5.2 Special Hazards Arising from the Substance or Mixture:**





This product contains hydrogen peroxide which is a strong oxidizer and may increase the flammability of combustible or flammable materials or powdered metals. Hydrogen peroxide will not burn but decomposes to release oxygen which supports combustion. Contamination can cause rapid decomposition and an explosive pressure rupture of the container if not properly vented. Decomposition may release oxygen and water.

**5.3 Advice for Fire-Fighters:**

**Fire Fighting Procedures:** Use water to cool fire-exposed containers. Fight fire from safe distance or protected location.

**Precautions for Fire Fighters:** Do not enter fire area without proper protection. Firefighters should wear full emergency equipment and an approved positive pressure self-contained breathing apparatus.



**Recommended Protective Equipment for Fire Fighters:**

EYES/FACE	HANDS	RESPIRATORY	THERMAL
			

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

Evacuate spill area and keep unprotected personnel away. Avoid contact with skin, eyes or clothing. Avoid breathing vapors. Wear appropriate protective clothing. Ventilate area. Prevent contact with flammable or combustible material. Keep away from heat, flames and high temperatures.

<b>Recommended Personal Protective Equipment for Containment and Clean-up:</b>			
<b>EYES/FACE</b>	<b>HANDS</b>	<b>RESPIRATORY</b>	<b>SKIN</b>
			

**6.2 Environmental Precautions:**  
 Prevent entry into sewers and waterways. Report releases as required by local, state, and national authorities.

**6.3 Methods and Material for Containment and Cleaning up:**  
 Contain and absorb with an inert, non-combustible material and place in appropriate containers for disposal. Do not return to the original container. Keep containers away from combustible materials. Vent containers of recovered gel to prevent pressurization and rupture of containers. Rinse spill area with water. Report releases as required by local, state and federal authorities.

**6.4 Reference to Other Sections:**  
 Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

## 7. HANDLING AND STORAGE

**7.1 Precautions for Safe Handling:**  
 Avoid contact with the eyes, skin and clothing. Avoid breathing vapors. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep in vented, closed containers. Protect product from contamination. Keep away from flammable and combustible materials.  
 Do not reuse containers. Empty containers retain product residues that can be hazardous. Follow all SDS precautions when handling empty containers.

**7.2 Conditions for Safe Storage, Including Any Incompatibilities:**  
 Store in a cool, well-ventilated area away from heat, clothing and incompatible materials. Avoid light and heat and keep in a closed but vented container to prevent evaporation and contamination. Do not store on wooden shelves or floors. Recommended storage is refrigeration.

**7.3 Specific End Use (s):** For professional use only.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters:**

**Occupational Exposure Limits:**

Non-Hazardous Ingredients	United States	None Established
	Germany	None Established

	United Kingdom	None Established
	European Union	None Established
Hydrogen Peroxide	United States	1 ppm TWA ACGIH TLV 1 ppm TWA OSHA PEL
	Germany	0.5 ppm TWA, 0.5 ppm STEL DFG MAK
	United Kingdom	1 ppm TWA, 2 ppm STEL UK WEL
	European Union	Belgium: 1 ppm TWA
	<b>Biological Exposure Limits:</b> None Established	

<b>8.2 Exposure Controls:</b>			
<b>Appropriate Engineering Controls:</b> Use with adequate local exhaust ventilation to maintain exposure levels below the occupational exposure limits.			
<b>Individual Protection Measures (PPE):</b> <b>Specific Eye/face Protection:</b> Chemical safety goggles are recommended. <b>Specific Skin Protection:</b> Wear impervious gloves such as natural rubber gloves to avoid skin contact. <b>Specific Respiratory Protection:</b> None should be needed for normal use. If the exposure limits are exceeded, an approved supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice. <b>Specific Thermal Hazards:</b> None required.			
<b>Recommended Personal Protective Equipment</b>			
<b>EYES/FACE</b>	<b>HANDS</b>	<b>RESPIRATORY</b>	<b>SKIN</b>
			

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties:

<b>Appearance:</b>	Colorless to white gel	<b>Explosive limits:</b>	<b>LEL:</b> Not determined <b>UEL:</b> Not determined
<b>Odor:</b>	Mint odor	<b>Vapor pressure (mmHg):</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Vapor density:</b>	Not determined
<b>pH:</b>	5.4-6.5	<b>Relative density:</b>	Not determined
<b>Melting/freezing point:</b>	Not determined	<b>Solubility(ies):</b>	Partially soluble in water.
<b>Initial boiling point and boiling range:</b>	Not determined	<b>Partition coefficient: n-octanol/water:</b>	Not determined

<b>Flash point:</b>	Not flammable	<b>Auto-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not determined	<b>Decomposition temperature:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not applicable	<b>Viscosity:</b>	Not determined
<b>Explosive Properties:</b>	Not explosive	<b>Oxidizing Properties:</b>	Oxidizer

**9.2 Other Information:** None available

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** None known.

**10.2 Chemical Stability:** Stable under normal storage and handling conditions. Unstable when exposed to heat and contaminants.

**10.3 Possibility of Hazardous Reactions:** Oxidizers may react violently with many other materials, particularly flammable and combustible organic materials. Elevated temperatures can increase the decomposition of the product. Contact with organic substances may cause fire or explosion.

**10.4 Conditions to Avoid:** Avoid excessive heat. Avoid light and heat and keep in a closed but vented container to prevent evaporation (concentration) and contamination.

**10.5 Incompatible materials:** Avoid acids, bases, metal powders and combustible materials.

**10.6 Hazardous Decomposition Products:** Decomposition may release oxygen and water.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

**Potential Health Effects:**

**Eyes:** Direct contact may cause severe irritation with redness, pain and tearing with possible corneal damage.

**Skin:** May cause irritation with redness and pain. Prolonged contact may cause bleaching of the skin.

**Ingestion:** Swallowing large amounts may cause gastrointestinal irritation, stomach distention, nausea, vomiting and diarrhea.

**Inhalation:** No adverse effects are expected under normal use conditions.

**Chronic Health Effects:** None known.

**Irritation:** Hydrogen Peroxide: In a study with 10% aqueous solution of hydrogen peroxide, the results showed that the solution was not irritating to rabbit skin and extremely irritating to rabbit eyes.

**Corrosivity:** This product is classified as corrosive to the eyes.

**Sensitisation:** No data available. This product is not expected to cause sensitization.

**Carcinogenicity:** None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Directive.

**Mutagenicity:** Hydrogen peroxide has tested positive for mutagenicity in some test systems.

<p><b>Medical Conditions Aggravated by Exposure:</b>          Individuals with pre-existing eye or skin disease may be at increased risk from exposure.</p>
<p><b>Acute Toxicity Data:</b>          Hydrogen Peroxide: Oral rat LD50 - &gt;5000 mg/kg (10%)</p>
<p><b>Reproductive Toxicity Data:</b> Hydrogen Peroxide: In a 90 day reproductive oral study with mice, hydrogen peroxide showed no effects in the reproductive organs in both males and females mice. It was presumed that the rapid degeneration of hydrogen peroxide on absorption and due to local effects, studies would be unlikely to reveal any specific developmental effects.</p>
<p><b>Specific Target Organ Toxicity (STOT):</b>  <u>Single Exposure:</u> No data available   <u>Repeated Exposure:</u> No data available.</p>

## 12. ECOLOGICAL INFORMATION

<p><b>12.1 Toxicity:</b>          Hydrogen Peroxide: 96 hr LC50 Fathead minnow-16.4 mg/L; 48 hr EC50 Daphnia pulex- 2.4 mg/L; 72 hr EC50 Skeletonema costatum- 1.38 mg/L</p>
<p><b>12.2 Persistence and Degradability:</b> Hydrogen peroxide rapidly degrades in the environment.</p>
<p><b>12.3 Bio-accumulative Potential:</b> Hydrogen peroxide is decomposed by enzymatic action and does not accumulate in cell systems.</p>
<p><b>12.4 Mobility in Soil:</b> Hydrogen peroxide degrades in soil to form oxygen and water.</p>
<p><b>12.5 Results of PBT and vPvB Assessment:</b> Not applicable.</p>
<p><b>12.6 Other Adverse Effects:</b> None</p>

## 13. DISPOSAL CONSIDERATIONS

<p><b>13.1 Waste Treatment Methods:</b></p>
<p><b>Regulations:</b> Dispose in accordance with all national and local regulations.</p>
<p><b>Properties (Physical/Chemical) Affecting Disposal:</b> Empty containers retain product residues that can be hazardous. Follow all SDS precautions when handling empty containers.</p>
<p><b>Waste Treatment Recommendations:</b> Dispose in accordance with national and local regulations.</p>

## 14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
<b>DOT</b>	UN2984	Hydrogen Peroxide Solution	5.1	III	Not applicable
<b>ADR/RID</b>	UN2984	Hydrogen Peroxide Solution	5.1	III	Not applicable
<b>IMDG</b>	UN2984	Hydrogen Peroxide Solution	5.1	III	Not applicable
<b>IATA/ICAO</b>	UN2984	Hydrogen Peroxide Solution	5.1	III	Not applicable

**14.6 Special Precautions for User:** Not applicable.

**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

## 15. REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

#### U.S. Federal Regulations

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**Toxic Substances Control Act (TSCA):** All of the components of this product are listed on the TSCA inventory.

**Clean Water Act (CWA):** This material is not regulated under the Clean Water Act.

**Clean Air Act (CAA):** This material is not regulated under the Clean Air Act.

#### **Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

##### **SARA Section 311/312 (40 CFR 370) Hazard Categories:**

<b>Immediate Hazard:</b>	<b>Yes</b>	<b>Pressure Hazard:</b>	<b>No</b>
<b>Delayed Hazard:</b>	<b>No</b>	<b>Reactivity Hazard:</b>	<b>No</b>
<b>Fire Hazard:</b>	<b>Yes</b>		

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):**

<b>Components</b>	<b>C.A.S. #</b>	<b>WT %</b>
None		

#### State Regulations

**California:** This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity:

<b>Components</b>	<b>C.A.S. #</b>	<b>WT %</b>
None		

#### International Regulations

**Canadian Workplace Hazardous Materials Information System (WHMIS):** Cosmetics are not subject to WHMIS.

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

**15.2 Chemical Safety Assessment:** None required.

## 16. OTHER INFORMATION

### HMIS Hazard Rating:

Health – 3      Flammability – 0      Physical Hazard– 1

### Full text of Classification abbreviations used in Section 2 and 3:

C Corrosive

O Oxidizer

Xi Irritant

Xn Harmful

R5 Heating may cause an explosion.

R8 Contact with combustible material may cause fire.

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R35 Causes severe burns.

R41 Risk of serious damage to eyes.

Acute Tox. Cat 4 Acute Toxicity Category 4

Aquatic Chronic Cat 3 Aquatic Chronic Toxicity Category 3

Eye Dam. Cat 1 Eye Damage Category 1

Oxid. Liq. Cat 1 Oxidizing Liquid Category 1

Oxid. Liq. Cat 3 Oxidizing Liquid Category 3

Skin Corr. Cat 1A Skin Corrosion Category 1

Skin Irrit. Cat 2 Skin Irritation Category 2

H271 May cause fire or explosion; strong oxidizer.

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Cause skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Supersedes: New SDS

Date Revised: 19 February 2015

Revision Summary: New SDS.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.