SAFETY DATA SHEETS

This SDS packet was issued with item:

070419770

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070419754 070419762 070419796 070419804

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

070419739

Safety Data Sheet

Safety Data Sheet conforms to Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 2020/878, US 29CFR1910.1200, Canada Hazardous Products Regulation

Date Issued:
Document Number: 130150
Date Revised: 22 June 2021
Revision Number: 9

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

1.1 Product Identifier:

Trade Name (as labeled): **Captivate by Nupro® In-Office Tooth Whitener**

Part/Item Number: **614062**

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

Recommended Use: **Tooth Whitening Gel**

Restrictions on Use: **For Professional Use Only.**

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name: **Dentsply Sirona**

Manufacturer/Supplier Address: **1301 Smile Way**
York, PA 17404 USA

Manufacturer/Supplier Telephone Number: **800-989-8826 or 717-767-8502 (Product Information)**

Email address: **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:

Part A

GHS Classification:

Health	Environmental	Physical
Eye Damage Category 1 (H318) Skin Irritant Category 2 (H315)	Aquatic Chronic Toxicity Category 3 (H412)	Oxidizing Liquid Category 3 (H272)

Part B

GHS Classification:

Health	Environmental	Physical
Skin Corrosive Category 1 (H314) Eye Damage Category 1 (H318)	Not Hazardous	Not Hazardous

2.2 Label Elements:

Signal Word: Danger

Part A

Hazard Phrases	Precautionary Phrases
H271 May cause fire or explosion; strong oxidizer. H315 Causes skin irritation. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.	P210 Keep away from heat P220 Store away from clothing and combustible material P221 Take any precaution to avoid mixing with combustibles. P264 Wash thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing, eye protection 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.

Part B

Hazard Phrases	Precautionary Phrases
H314 Causes severe skin burns and eye damage	P260 Do not breathe mists. P264 Wash thoroughly after handling. P280 Wear protective gloves, eye protection, and face protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P363 Wash contaminated clothing before reuse. P310 Immediately call a POISON CENTER P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER 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 P405 Store locked up. 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:

Part A

Hazardous Components	C.A.S. #	EINECS #	Classification	WT %
Hydrogen Peroxide	7722-84-1	231-765-0	Oxid. Liq. 1 (H271) At ≥ 70% Oxid. Liq. 2 (H272) At ≥ 50 - < 70% Acute Tox. 4 (H302,H332) Oral LD50: 693.7 mg/kg Inhale LC50: >0.17 mg/L Skin Corr. 1A (H314) At ≥ 70% Skin Corr. 1B (H314) At ≥ 50 - < 70% Skin Irrit 2 (H315) At ≥ 35 - < 50% Eye Dam. 1 (H318) At ≥ 8 - < 50% Eye Irrit. 2 (H319) At ≥ 5 - < 8% STOT SE 3 (H335) At ≥ 35% Aquatic Chronic 3 (H412)	45

Part B

Hazardous Components	C.A.S. #	EINECS #	Classification	WT %
Glycerin	56-81-5	200-289-5	Not Applicable	80-90
Sodium Hydroxide	1310-73-2	231-765-0	Met Corr. 1 (H290) Skin Corr. 1A (H314) At ≥ 5% Skin Corr. 1B (H314) At 2 - < 5% Skin Irrit 2 (H315) At 0.5 - < 2% Eye Dam. 1 (H318) At ≥ 2% Eye Irrit. 2 (H319) At ≥ 0.5 - < 2%	<5

The exact concentration is being withheld as a trade secret.

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

4. FIRST AID MEASURES

4.1 Description of First Aid Measures:	
Eye	**Part A:** 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. **Part B:** Immediately flush eyes with plenty of water for at least 30 minutes while holding the eyelids apart. Remove contact lenses, if present and easy to do. Get immediate medical attention.

Skin	**Part A:** Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation occurs and persists. Launder clothing before re-use. **Part B:** Immediately flush skin with plenty of water for 30 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes).
Inhalation	**Part A:** Immediately remove victim to fresh air. If breathing is difficult, have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Get immediate medical attention. **Part B:** Immediately remove victim to fresh air. If breathing is difficult, have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Get immediate medical attention.
Ingestion	**Part A:** Do NOT induce vomiting unless directed to do so by medical personnel. 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. **Part B:** Do NOT induce vomiting. If the victim is conscious and alert, have them rinse their mouth with water. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

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

Part A: Causes severe eye irritation with possible eye damage. Causes 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.
Part B: Causes severe eye and skin irritation and burns. If inhaled, may cause irritations and burns to upper respiratory tract. May cause irritation and burns to mucous membranes and gastrointestinal tract.

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

Part A: Immediate medical attention is required for eye contact.
Part B: Immediate medical attention is required for all routes of contact.

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 oxides of carbon, oxygen, and water.

5.3 Advice for Fire-Fighters:

Fire Fighting Procedures/Precautions for Fire Fighters:	Use water to cool fire-exposed containers. Fight fire from safe distance or protected location. Do not enter fire area without proper protection. Firefighters should wear full emergency equipment and an approved positive pressure self-contained breathing apparatus.

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.

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:

Prevent 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:

Hydrogen Peroxide	1 ppm TWA ACGIH TLV 1 ppm TWA OSHA PEL 1 ppm TWA, 2 ppm STEL UK WEL 1 ppm TWA France OEL 0.5 ppm TWA, 0.5 ppm STEL DFG MAK 1 ppm TWA Belgium OEL
Glycerin	15 mg/m^3 (total dust), 5 mg/m^3 (respirable fraction) TWA OSHA PEL as mist 10 mg/m^3 TWA UK WEL 10 mg/m^3 TWA France OEL 200 mg/m^3 TWA, 400 mg/m^3 STEL DFG MAK 10 mg/m^3 TWA Belgium OEL
Sodium Hydroxide	2 mg/m^3 Ceiling ACGIH TLV 2 mg/m^3 TWA OSHA PEL 2 mg/m^3 STEL UK WEL 2 mg/m^3 TWA France OEL 2 mg/m^3 TWA Belgium OEL

Biological Exposure Limits: None Established

8.2 Exposure Controls:

Appropriate Engineering Controls: Use with adequate local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Individual Protection Measures (PPE):

Specific Eye/face Protection: Wear chemical safety goggles. A face shield is recommended where splashing is possible.

Specific Skin Protection: Wear impervious gloves such as natural rubber gloves to avoid skin contact.

Specific Respiratory Protection: 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.

Specific Thermal Hazards: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance:	Part A: Colorless liquid Part B: Green liquid	**Explosive limits:**	**LEL:** Not determined **UEL:** Not determined
Color:	Part A: Colorless. Part B: Green.	**Physical State:**	Liquid
Odor:	Part A: Pungent odor Part B: Characteristic odor	**Vapor pressure (mmHg):**	Not determined
Odor threshold:	Not determined	**Relative Vapor Pressure @20ºC: (Air = 1)**	Not determined
pH:	Part A: <4 Part B: >13	**Relative density:**	1.15
Melting/freezing point:	Not determined	**Solubility(ies):**	Soluble in water.
Initial boiling point and boiling range:	Not determined	**Partition coefficient: n-octanol/water:**	Not determined
Flash point:	Not flammable	**Auto-ignition temperature:**	Not determined
Evaporation rate: (n-BuAc = 1)	Not determined	**Decomposition temperature:**	Not determined
Flammability:	Not flammable	**Kinematic Viscosity:**	Not determined

9.2.1 Properties, Safety Characteristics and Test Results for Physical Hazards:

Oxidizing Properties: Part A: Is an oxidizer.

9.2.2 Other Safety Characteristics: None determined.

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 oxides of carbon, oxygen and water.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Part A:

Eyes: Direct contact causes severe irritation with redness, pain and tearing with possible corneal damage.
Skin: Causes 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.

Part B:

Eyes: Causes severe irritation or burns with redness, tearing, pain and burns. Corneal damage may occur.
Skin: Causes severe skin irritation and possible burns.
Ingestion: Ingestion may cause mucous membrane and gastrointestinal burns
Inhalation: Inhalation of vapors may cause mucous membrane and respiratory irritation with a burning sensation of the nose and throat, watering of the eyes, and difficulty in breathing.

Chronic Health Effects: None known.

Eye Irritation/ Damage: **Part A:** Causes severe irritation with redness, pain and tearing with possible corneal damage. **Part B:** Causes severe irritation or burns with redness, tearing, pain and burns. Corneal damage may occur.

Skin Irritation / Corrosivity: **Part A:** Causes irritation with redness and pain. Prolonged contact may cause bleaching of the skin. **Part B:** Causes severe skin irritation and possible burns.

Sensitization: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met. None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU CLP.

Mutagenicity: Based on available data, the classification criteria are not met.

Aspiration Hazard: Based on available data, the classification criteria are not met.

Acute Toxicity Data:

Hydrogen Peroxide: Oral rat LD50: 693.7 mg/kg (70% solution); Dermal rabbit LD50: > 2000 mg/kg;

Inhalation rat LC50: > 0.17 mg/l/ 4hr. (Maximum attainable concentration – no deaths occurred) Glycerin: Oral Rat LD50 – 17,000-27,200 mg/kg; Skin Rabbit LD50 - >10,000 mg/kg

Sodium Hydroxide: No data available

ATE: Part A: Oral: >500mg/kg, Dermal: > 14,492

Part B: Oral: >18867, Dermal: >11,000

Reproductive Toxicity Data: Based on available data, the classification criteria are not met. 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.
Specific Target Organ Toxicity Single Exposure (STOT-SE): Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity Repeated Exposure (STOT-RE): Based on available data, the classification criteria are not met.

11.2 Information on Other Hazards

11.2.1 Endocrine Disrupting Properties: None known

12. ECOLOGICAL INFORMATION

12.1 Toxicity:
Hydrogen Peroxide: Oral rat LD50 >225 mg/kg; Skin rabbit >6.5 g/kg; Inhalation rat LC50 >0.17 mg/L
Glycerin: Oral Rat LD50 – 17,000-27,200 mg/kg; Skin Rabbit LD50 - >10,000 mg/kg
Sodium Hydroxide: No data available

12.2 Persistence and Degradability: Hydrogen peroxide rapidly degrades in the environment.

12.3 Bio-accumulative Potential: Hydrogen peroxide is decomposed by enzymatic action and does not accumulate in cell systems.

12.4 Mobility in Soil: Hydrogen peroxide degrades in soil to form oxygen and water.

12.5 Results of PBT and vPvB Assessment: Not applicable.

12.6 Endocrine disrupting Properties: None known.

12.7 Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Waste Treatment Recommendations: Dispose in accordance with national and local regulations.

14. TRANSPORT INFORMATION

Part A

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
DOT	UN2014	Hydrogen Peroxide Solution	5.1 (8)	III	Not applicable
ADR/RID	UN2014	Hydrogen Peroxide Solution	5.1 (8)	III	Not applicable
IMDG	UN2014	Hydrogen Peroxide Solution	5.1 (8)	III	Not applicable
IATA/ICAO	UN2014	Hydrogen Peroxide Solution	5.1 (8)	III	Not applicable

Part B

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
DOT	UN1824	Sodium Hydroxide Solution	8	II	Not applicable
ADR/RID	UN1824	Sodium Hydroxide Solution	8	II	Not applicable
IMDG	UN1824	Sodium Hydroxide Solution	8	II	Not applicable
IATA/ICAO	UN1824	Sodium Hydroxide Solution	8	II	Not applicable

14.6 Special Precautions for User: Part A: **Forbidden By Air**

14.7 Transport in Bulk According to IMO Instruments: 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 has a Reportable Quantity (RQ) of 20,000 lbs. based on the RQ for Sodium Hydroxide of 1,000 lbs. Releases above the RQ must be reported to the National Response Center. 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: See OSHA Hazard Classification in Section 2.

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): None.

State Regulations

California: This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity.

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 Canada Hazardous Products Regulation.

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:
Acute Tox. 4 - Acute Toxicity Category 4
Aquatic Chronic 3 – Chronic Aquatic Toxicity Category 3
Eye Dam. 1 - Eye Damage Category 1
Eye Irrit. 2 – Eye Irritation Category 2
Oxid. Liq. 1 - Oxidizing Liquids Category 1
Oxid. Liq. 2 - Oxidizing Liquids Category 2
Met Corr. 1 - Corrosive to Metals Category 1
Skin Corr. 1A – Skin Corrosion Category 1A
Skin Corr. 1B – Skin Corrosion Category 1B
Skin Irrit. 2 - Skin Irritation Category 2
STOT SE 3- Specific Target Organ Toxicity Category 3
H271 May cause fire or explosion: strong oxidizer.
H272 May intensify fire: oxidizer.
H290 Corrosive to metals
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Cause skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Supersedes: 01 December 2017
Date Revised: 22 June 2021
Revision Summary: General content and format update. Removed EU classifications. Revised for Regulation (EC) 2020/878, Changes to all sections.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, ECHA REACH Registration Website, Country websites for occupational exposure limits.