

## Hydra Pearl At-Home Teeth Whitening System

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**Division:** Dental Consumables

**Trade Name:** Hydra Pearl At-Home Teeth Whitening System

**ID Number:** PD-R-953-001

**Issued:** May 2016

### SECTION 1: Identification

**1.1 Product identifier numbers:** 08162023-06

**1.2 Recommended use and restrictions on use**

**Recommended use**

Dental product, whitening material

**Restrictions on use**

None

**1.3 Supplier's details**

**MANUFACTURER:**

Plasmadent, Inc.

**DIVISION:**

Dental Division

**WEBSITE:**

www.nanovabio.com

**ADDRESS:**

3806 Mojave Court, Columbia, MO, 65202, USA

**TELEPHONE:**

573-875-6682

**1.4 Emergency telephone number:**

573-875-6682

### SECTION 2: Hazard identification

**2.1 Classification of the Substance:**

**GHS Classification:**

**Health**

Eye Corrosion Category 1

Skin Irritant Category 2

**EU Classification:** Irritant(Xi), Harmful(Xn) R22, R34, R36, R37, R38, R41

**2.2 Label Elements:**

Hazard pictogram(s)



Signal word : Warning

R: Phrases R22 Harmful if swallowed ; R36/37/38 Irritating to eyes, respiratory system and skin. ;

41 Risk of serious damage to eyes

**Hazard Phrases**

**Precautionary Phrases**

<p>H315 Causes skin irritation. H319 Causes serious eye irritation.</p>	<p>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. P315: Get immediate medical advice/attention. 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. P501 Dispose of contents and container in accordance with local and national regulations.</p>
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**2.3 Other Hazards:** None known.

**SECTION 3: Composition/Information on ingredients**

INCI Chemical Name	INN Name	CAS	Classification	% by Weight
Aqua	Water	7732-18-5		35~46%
Glycerin	-	56-81-5		30~40%
Hydrogen peroxide	-	7722-84-1	Xi; R36	4.2~7.0%
Triethanolamine	-	102-71-6		1~5%
Sodium fluoride	-	7681-49-4		0.1~0.5%
Citric acid		77-92-9		2~5%
Flavor (Proprietary from supplier)	Mint  Strawberry			0.05%~1.00%

**SECTION 4: First Aid Measures**

**4.1 Description of First Aid Measures:**

**EYES:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**SKIN:** After contact with skin, wash immediately with plenty of water.

**INGESTION:** Give large volumes of water. Do not induce vomiting. Consult a physician if ingested in large amounts.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible.)

**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.

## SECTION 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

<b>Hazardous combustion products</b>	: None known
<b>Explosion hazards</b>	: Not Determined
<b>Fire explosion</b>	: Not Determined
<b>Sensitive to static discharge</b>	: Not Determined
<b>Sensitivity to impact</b>	: Not determined

### 5.3 Special protective actions for fire-fighters

**Firefighting procedures:** General: Evacuate all personnel; use protective equipment for fire-fighting.  
Use self-contained breathing apparatus when the product is involved in fire.

**Firefighting equipment:** Foam, dry chemical, carbon dioxide (CO<sub>2</sub>)

## SECTION 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.

## SECTION 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 tooth whitening purposes only.

## SECTION 8: Exposure Control/Personal Protection

### 8.1 Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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Glycerin	TWA: 10 mg/m <sup>3</sup>	-	-
Hydrogen peroxide	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1.4 mg/m <sup>3</sup>
Triethanolamine	TWA: 5 mg/m <sup>3</sup>	-	-
Sodium fluoride	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>
Citric acid	-	-	-

ACGIH : American Conference of Governmental Industrial Hygienists  
 AIHA : American Industrial Hygiene Association  
 CMRG : Chemical Manufacturer's Recommended Guidelines  
 OSHA : United States Department of Labor - Occupational Safety and Health Administration  
 TWA: Time-Weighted-Average  
 STEL: Short Term Exposure Limit

## 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:** Chemical safety goggles are recommended.  
**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.

### Personal Protection Equipment

Wear suitable protective clothing, gloves, and eye/face protection.

## SECTION 9: Physical and Chemical Properties

General Physical Form:	Gel
Odor, Color:	Mint/Strawberry; Clear Gel
Odor threshold	No Data Available
pH	4.0-7.0
Melting point	No Data Available
Boiling Point	≥100 °C
Flash Point	Not Flammable
Evaporation rate	No Data Available
Flammability (solid, gas)	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Specific Gravity	1.1
Solubility in Water	Soluble in Water
Partition coefficient: n-octanol/ water	Not Applicable
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Molecular weight	No Data Available
Explosive Properties	Not Explosive
Oxidizing Properties	Oxidizer

## SECTION 10: Stability and Reactivity

### STABILITY

: Stable when stored and handled under recommended conditions.

<b>CONDITIONS TO AVOID</b>	: Avoid excessive heat. Avoid light and heat and keep in a closed but vented container to prevent evaporation and contamination.
<b>POLYMERIZATION</b>	: Not applicable.
<b>CONDITIONS TO AVOID</b>	: Strong acids, strong bases, and oxidizing agents.
<b>INCOMPATIBLE MATERIALS</b>	: Strong caustics, metals

## SECTION 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.

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing eye or skin disease may be at increased risk from exposure.

**Acute Toxicity Data:** Hydrogen Peroxide: Oral rat LD50 - >5000 mg/kg (10%)

#### Specific Target Organ Toxicity (STOT):

Single Exposure: No data available

Repeated Exposure: No data available.

## SECTION 12: Ecological information

#### Ecotoxicological information:

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### Chemical fate information:

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

## SECTION 13: Disposal considerations

