

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

070350207

N/A



**MATERIAL SAFETY DATA Vista Dental Products**  
**Methylene Blue 1 %**

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**SECTION 1 - PRODUCT IDENTIFICATION**

Company Name: Inter-Med, Inc. /Vista Dental Products  
2200 Northwestern Avenue  
Racine, WI 53404  
Phone: (877) 418-4782  
Fax: (262) 636-9760  
Prepared: June 3, 2003 Revised March 17, 2008

**SECTION II – COMPOSITION, INFORMATION OF INGREDIENTS**  
**(ND = NOT DETERMINED) (NA = NOT APPLICABLE)**

CAS#	Chemical Name	Percent	EINECS/ELINCS
7732-18-5	Water	99 %	231-791-2
7220-79-3	Methylene blue trihydrate	1 %	unlisted

**SECTION III – HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Appearance: blue liquid. **Caution!** Eye contact may result in permanent eye damage.

**Target Organs:** None.

**Potential Health Effects**

**Eye:** This product contains a cationic dye. Similar dyes have caused permanent injury to the cornea and conjunctiva in documented exposure cases with human or rabbit eyes.

**Skin:** Non-irritating to the skin.

**Ingestion:** No hazard expected in normal industrial use.

**Inhalation:** No hazard expected in normal industrial use.

**Chronic:** No information found.

**SECTION IV – FIRST AID MEASURES**

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

**Ingestion:** Get medical aid if irritation or symptoms occur.

**Inhalation:** Get medical aid if cough or other symptoms appear.

**Notes to Physician:** Treat symptomatically and supportively.



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### SECTION V – FIRE FIGHTING MEASURES

**General Information:** Material will not burn.

**Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

### SECTION VI – ACCIDENTAL RELEASE MEASURES

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

### SECTION VII – HANDLING AND STORAGE

**Handling:** Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Avoid contact with eyes.

**Storage:** Keep container closed when not in use.

### SECTION VIII – EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering Controls:** Good general ventilation should be sufficient to control airborne levels.

#### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Water	none listed	none listed	none listed
Methylene blue trihydrate	none listed	none listed	none listed

**OSHA Vacated PELs:** Water: No OSHA Vacated PELs are listed for this chemical.

Methylene blue trihydrate: No OSHA Vacated PELs are listed for this chemical.

#### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.



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**SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Liquid

**Appearance:** blue

**Odor:** Odorless.

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** 100 deg C

**Freezing/Melting Point:** 0 deg C

**Decomposition Temperature:** Not available.

**Solubility:** Complete in water.

**Specific Gravity/Density:** 1.0 (Water=1)

**Molecular Formula:** Not applicable.

**Molecular Weight:** Not available.

**SECTION X – STABILITY AND REACTIVITY**

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** None reported.

**Incompatibilities with Other Materials:** None reported

**Hazardous Decomposition Products:** None.

**Hazardous Polymerization:** Has not been reported

**SECTION XI – TOXICOLOGY INFORMATION**

**RTECS#:**

**CAS#** 7732-18-5: ZC0110000

**CAS#** 7220-79-3: SP5740000

**LD50/LC50:**

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg; <BR.

CAS# 7220-79-3: <BR.

**Carcinogenicity:**

CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 7220-79-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available

**Teratogenicity:** No information available

**Reproductive Effects:** No information available

**Neurotoxicity:** No information available

**Mutagenicity:** No information available

**Other Studies:** No data available.



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**SECTION XII – ECOLOGICAL INFORMATION**

No information available.

**SECTION XIII – DISPOSAL CONSIDERATIONS**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

**SECTION XIV – TRANSPORTATION INFORMATION**

	<b>US DOT</b>	<b>Canada TDG</b>
<b>Shipping Name:</b>	No information available.	No information available.
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

**SECTION XV – REGULATORY INFORMATION**

**US FEDERAL**

**TSCA**

CAS# 7732-18-5 is listed on the TSCA inventory.

CAS# 7220-79-3 is not listed on the TSCA inventory. It is for research and development use only.

**Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**SARA**

**CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**SARA Codes**

CAS # 7220-79-3: acute, chronic.



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### **Section 313**

No chemicals are reportable under Section 313.

#### **Clean Air Act:**

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

#### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### **OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

#### **STATE**

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 7220-79-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

## **European/International Regulations**

### **European Labeling in Accordance with EC Directives**

#### **Hazard Symbols:**

Not available.

#### **Risk Phrases:**

#### **Safety Phrases:**

#### **WGK (Water Danger/Protection)**

CAS# 7732-18-5: No information available.

CAS# 7220-79-3: No information available.

#### **Canada - DSL/NDL**

CAS# 7732-18-5 is listed on Canada's DSL List.

#### **Canada - WHMIS**

WHMIS: Not available.

#### **Canadian Ingredient Disclosure List**

## **SECTION XVI – ADDITIONAL INFORMATION**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Inter-Med Inc. / Vista Dental Products be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Inter-Med Inc. / Vista Dental Products has been advised of the possibility of such damages.



## Safety Data Sheet

### Section 1: Identification

**Product Name:** Vista-Blue™

**Product Use:** Methylene blue solution that detect fractures and hard-to-find root canal orifices

**Manufacturer:** Inter-Med, Inc. / Vista Dental Products

**Address:** 2200 South St. Suite A, Racine, WI 53404

**Phone:** (877) 418-4782 **Fax:** (262) 636-9760

**24 HR. Emergency Telephone Number CHEMTREC (North America) :** 800-424-9300

**24 HR. Emergency Telephone Number CHEMTREC (International) :** +1 (703) 527-3887

### Section 2: Hazard(s) Identification

#### 2.1. GHS Classification:

Health	Environmental	Physical
Causes mild skin irritation – Category 3 – H316 Causes serious eye damage – Category 1 – H319	Not Applicable	Not Applicable

#### 2.2. GHS Label:

OSHA HCS 2012



**WARNING**



<i>Hazard Statements</i>	<i>Precautionary Statements</i>
H316: Causes slight irritation to skin H319: Causes serious eye damage.	P264: Wash hands thoroughly after handling P280: Wear protective gloves / 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. P302+P352: IF ON SKIN: Wash with plenty of soap and water.

Refer to Section 15.2 for full text of EU Classifications and R/S Phrases.

### Section 3: Composition/Information on Ingredients

Chemical Components	CAS #	EINECS	Weight %
Water	7732-18-5	231-791-2	99%
Methylene blue trihydrate	7220-79-3	unlisted	1%

### Section 4: First-Aid Measures

#### 4.1. Description of first aid measures

**Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid, if irritation persists.

**Skin Contact:** Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

**Inhalation:** Get medical aid if cough or other symptoms appear.

**Ingestion:** Get medical aid if irritation or symptoms occur.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/Injuries:** Irritation to eyes. Eyes become sensitive or painful when exposed to light. Skin becomes dry, feels cold, causes discoloration, and skin turns red.

#### 4.3. Indication of immediate medical attention and special treatment needed





Consult a physician or contact Poison Control Center if chemical solution is ingested in large amounts. Physicians are required to treat victim symptomatically and supportively.

## Section 5: Fire-Fighting Measures

### 5.1. Suitable Extinguishing Media:

Use dry chemical, water, foam, or carbon dioxide to extinguish fire.

### 5.2. Fire Fighting Procedures:

Do not flush down sewers or other drainage systems. Exposed firefighters must wear NIOSH-approved positive pressure, self-contained breathing apparatus with full-face mask and full protective clothing.

### 5.3. Unusual Fire and Explosion Hazards:

No unusual fire or explosion hazards noted.

### 5.4. Combustion Products:

Thermal decomposition or combustion may liberate carbon oxides (CO<sub>2</sub>, CO) or other toxic gases or vapours.

## Section 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment, and Emergency Procedures

Wear proper personal protective equipment as indicated in Section 8. Follow instructions listed in Section 6.3 to follow clean up procedures.

### 6.2. Environmental Precautions

Follow all government regulations for waste disposal. Prevent release to the environment if possible. Do not flush waste into sewer or waterways.

### 6.3. Methods and Materials for Containment and Cleaning Up

**Small Spills:** Absorbent pads or paper towels may be used for small spills of less than 1 liter. Wipe up small amounts with



pads or towels and wash them with large amounts of water after each use. After cleaning, flush away traces with water.

**Large Spills:** Absorb with earth, sand, or vermiculite, and place in closed container and hold for waste disposal.

## Section 7: Handling and Storage

### 7.1. Handling

For intraoral use only by trained and experienced dental professionals. Follow good hygiene practices. Do not smoke, eat or drink while using. Use suitable protective equipment when handling. Wash thoroughly after handling and avoid any chemical contact with eyes, skin, and clothing. Keep container tightly closed to avoid inhalation or accidental ingestion. Use with adequate ventilation when necessary.

### 7.2. Storage

Store in a tightly closed container. Store container at room temperature in a cool, dry, well-ventilated area away from incompatible substances. Keep containers upright when not in use. Shelf life is twenty-four months from date of manufacture, provided that it is stored properly. Store at room temperature between 18°-30°C (65°-86°F).

## Section 8: Exposure Controls/Personal Protection

### 8.1. Exposure Limits / Engineering Controls

Chemical Components	ACGIH - TLV	NIOSH - REL	OSHA – Final PELs
Water	unlisted	unlisted	unlisted
Methylene blue trihydrate	unlisted	unlisted	unlisted

**Engineering Controls:** General ventilation recommended to control airborne levels. Emergency shower and eyewash should be nearby while handling the product.

### 8.2. Personal Protective Equipment (PPE) Information

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin Protection:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing Protection:** Wear appropriate protective clothing to minimize contact with skin.

**Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.



## Section 9: Physical and Chemical Properties

### 9.1. Appearance / Color

**Physical State:** Liquid

**Appearance:** Blue liquid

**Odor:** Odorless or no characteristic odor

**Odor Threshold:** Not applicable

### 9.2. Important health, safety and environmental information

**Flashpoint:** Not applicable

**Autoignition Temperature:** Not applicable

**Boiling Point:** 100°C / 212°F

**Melting Point:** Not determined

**Freezing Point:** 0°C

**Vapor Pressure:** Not available

**Relative Density:** 1.0 g/mL

**Vapor Density (Air=1):** Not available

**Solubility in Water:** Soluble

**Decomposition Temperature:** Not determined

**Pour Point:** Not applicable

**Lower Flammability Limit:** Not applicable

**Upper Flammability Limit:** Not applicable

**Specific Gravity:** 1.0

**Evaporation Rate (Water=1):** Not applicable

**Viscosity:** Not determined

**Octanol/Water Partition Coefficient:** Not determined

**pH:** Not available

**Molecular Weight:** Mixture

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable.

**Hazardous Polymerization:** Will not occur.



**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide.

**Incompatible Materials:** Oxidizers, reducing agents, hypochlorites, and caustic alkalis.

**Conditions to Avoid:** None identified.

## Section 11: Toxicological Information

### 11.1. Signs and Symptoms of Overexposure

**Eye Contact:** This product contains a cationic dye. Similar dyes have caused permanent injury to the cornea and conjunctiva in documented exposure cases with human or rabbit eyes.

**Skin Contact:** May cause slight irritation. May cause discoloration, feeling of cold, redness, or dryness (due to chronic exposure).

**Inhalation:** No hazard expected in normal industrial use. It could cause irritation of mucous membranes, watering of eyes, headache, dizziness, nausea, or coughing.

**Ingestion:** No hazard expected in normal industrial use. Large doses may cause stomach to become upset.

### 11.2. Additional Toxicity Information

**Target Organ(s):** Eyes and skin.

**RTECS#:**

**CAS# 7732-18-5:** ZC0110000

**CAS# 7220-79-3:** SP5740000

**LD50/LC50:**

**CAS# 7732-18-5:**

Oral, rat: LD50 = >90 mL/kg; <BR.

**CAS# 7220-79-3:** <BR.

**Carcinogenicity:**

**CAS# 7732-18-5:** Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**CAS# 7220-79-3:** Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available

**Teratogenicity:** No information available

**Reproductive Effects:** No information available



**Neurotoxicity:** No information available

**Mutagenicity:** No information available

**Other Studies:** No data available.

## Section 12: Ecological Information

Not established.

## Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

To minimize exposure, refer to section 8 (exposure controls/personal protection).

## Section 14: Transport Information

### 14.1. U.S. Department of Transportation (DOT) (N/A = Not applicable)

**Proper Shipping Name:** N/A

**Identification Number:** N/A

**Hazard Class:** N/A

**Packing Group:** N/A

**U.S. DPT Labeling Requirements:** N/A

**IATA Class:** N/A

**IATA Packing Group:** N/A

Not a DOT controlled material (USA). Not regulated.

### 14.2. Other Transportation Information

**By SEA (IMDG):** Not regulated

**By GROUND – Canada (TDG):** Not regulated

**By AIR (IATA):** Not regulated



## Section 15: Regulatory Information

### 15.1. U.S. Federal Regulations

#### **TSCA**

CAS# 7732-18-5 is listed on the TSCA inventory.

CAS# 7220-79-3 is not listed on the TSCA inventory. It is for research and development use only.

#### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

#### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

#### **Section 12b**

None of the chemicals are listed under TSCA Section 12b.

#### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

#### **SARA**

#### **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

#### **SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

#### **SARA Codes**

CAS # 7220-79-3: acute, chronic.

#### **Section 313**

No chemicals are reportable under Section 313.

#### **Clean Air Act:**

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

#### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### **OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

#### **STATE**

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 7220-79-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

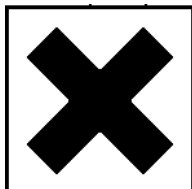




## 15.2. European/International Regulations

### European Labeling in Accordance with EC Directives

**Hazard Symbol(s) and Classification:** “Xi” – Irritant, “Xn” - Harmful



### EU Risk (R) and Safety (S) Phrases:

R41: Risk of serious damage to eyes.

R42: May cause sensitization by inhalation.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable clothing, gloves, and eye protection.

### WGK (Water Danger/Protection)

CAS# 7732-18-5: No information available.

CAS# 7220-79-3: 3.

### Canada - DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

### Canada - WHMIS

Not Applicable.

### Canadian Ingredient Disclosure List

None listed on the Canadian Ingredient Disclosure List.

## Section 16: Other Information

**National Fire Protection Association (NFPA) Ratings (estimated):** This information is intended solely for the use of individuals trained in the NFPA system.

**Health: 1**

**Flammability: 0**

**Reactivity: 0**



**Disclaimer:** The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Inter-Med Inc. / Vista Dental Products be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Inter-Med Inc. / Vista Dental Products has been advised of the possibility of such damages.

**Prepared:** 6/03/2011      **Revised:** 7/21/2015