

DENTSPLY Tulsa Dental Specialties

Safety Data Sheet

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1. PRODUCT IDENTIFICATION

Trade Name (as labeled): BIOPURE MTAD Antibacterial Root Canal Cleanser Liquid, Part A

Chemical Name/Classification: BIOPURE MTAD Antibacterial Root Canal Cleanser, Part A

Product Identifier (Part/Item Number):

U.N. Number: N / A

U.N. Dangerous Goods Classification: N / A

Recommended Use: Material for endodontic irrigation after instrumentation

Restrictions on Use: For Dental Use Only

Manufacturer/Supplier Name: DENTSPLY Tulsa Dental Specialties

Manufacturer/Supplier Address: 608 Rolling Hills Dr., Johnson City, TN 37604

Manufacturer/Supplier Telephone Number: 1-800-662-1202 (Product Information)

Emergency Contact Telephone Number: 1-800-262-8200

Email address: chemtrec@chemtrec.com

2. HAZARD(s) IDENTIFICATION

Hazard/Danger Classification: N / A

Health	Environmental	Physical
The liquid is acidic and can be irritating to the eyes, skin or if ingested.	N/A	N / A

Associated Hazards:

Hazard Statements	Precautionary Statements
The liquid is acidic and can be irritating to the eyes, skin or if ingested.	Wear eye protection / face protection. Wash hands thoroughly after handling. Wear protective gloves.

DENTSPLY Tulsa Dental Specialties



EU Classification: N/A

EU Risk (R) and Safety (S) Phrases: N / A

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

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. # EC#	IUPAC Name	Substance Classification	WT %
Citric Acid, USP	5949-29-1	3-carboxy-3-hydroxypentane dioic acid	N/A	<5%

Refer to Section 16 for the full text of the GHS and H phrases and EU Classifications and R Phrases.

4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	Immediately flush eyes with plenty of water while holding eyelids apart. Remove contact lenses. Do not use eye ointments.
Skin	Immediately flush skin with plenty of cool soapy water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Inhalation	Move individual away from exposure into fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen.
Ingestion	If ingestion occurs, flush mouth with water, give person several glasses of water, and seek medical attention immediately. Do not induce vomiting.
Most important symptoms of exposure	Irritation and/or reddening of eyes, skin or mucous membranes, coughing, shortness of breath.
Other	N/A
Note to Physicians (Treatment, Testing, and Monitoring) N / A	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, foam, Carbon dioxide or dry chemical.
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DENTSPLY Tulsa Dental Specialties

Fire Fighting Procedures:	Spray water, foam, carbon dioxide or dry chemical aiming at base of flames.
Specific Hazards Arising from the Chemical:	Irritating or toxic fumes may be evolved from dried material or syringe container.
Precautions for Fire Fighters:	Usual. Material will be in general fire. Avoid inhalation of smoke.

Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	SKIN	RESPIRATORY	
			

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Wipe up with towels. Caution-solution may be slippery. Discard in trash. Dispose of container and unused contents in accordance with federal, state and local requirements.

Environmental Precautions: N/A

Methods and Materials for Containment and Clean-up: Place in suitable containers for disposal by local, state, or federal waste disposal regulations.

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

7. HANDLING AND STORAGE

Precautions for Safe Handling: Trained personnel use this product exclusively for dental purposes.

Conditions for Safe Storage: Store in ventilated, dry, cool (<22°C/78°F) area out of direct sunlight and away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: N/A

DENTSPLY Tulsa Dental Specialties

Biological Exposure Limits: Use in a well-ventilated area.			
Appropriate Engineering Controls: None			
Individual Protection Measures (PPE) Specific Eye/face Protection: Wear goggles, safety glasses, or a face shield. Specific Skin Protection: Wear latex or nitrile gloves. Wear impervious protective clothing, including gloves, lab coat, apron or coveralls, as appropriate to prevent skin contact. Specific Respiratory Protection: Handle the product in a well-ventilated area. Under normal use, respirators are not required. Specific Thermal Hazards: N / A			
Recommended Personal Protective Equipment			
EYES/FACE	SKIN		
			
Environmental Exposure Controls: N/A			
General Hygiene Considerations and Work Practices: Wear gloves as per universal precautions in dentistry. Wash your hands following use. No eating, drinking or smoking while handling this product.			
Protective Measures During Repair and Maintenance of Contaminated Equipment: N/A			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid	Explosive limits:	N / A
Odor:	None	Vapor pressure:	Similar to water
Odor threshold:	N / A	Vapor density:	Not applicable
pH:	~2	Relative density:	1.04 (Water = 1.0)
Melting/freezing point:	0°C/0°C	Solubility:	Completely miscible in water
Initial boiling point and range:	>100°C	Partition coefficient: n-octanol/water:	N / A
Flash point:	N / A	Auto-ignition temperature:	N / A
Evaporation rate:	Not known	Decomposition temperature:	Not known

DENTSPLY Tulsa Dental Specialties

Flammability:	N / A	Viscosity:	N / A
Explosive Properties:	N / A	Oxidizing Properties:	N / A

10. STABILITY AND REACTIVITY

Reactivity: Avoid strong oxidizers or water-reactive materials, bases, iron or metal nitrates. Will corrode copper, zinc, aluminum and their alloys.

Chemical Stability: Generally stable

Possibility of Hazardous Reactions: Avoid strong oxidizers or water-reactive materials, bases, iron or metal nitrates. Will corrode copper, zinc, aluminum and their alloys.

Conditions to Avoid: N/A

Incompatible materials: Avoid strong oxidizers or water-reactive materials, bases, iron or metal nitrates. Will corrode copper, zinc, aluminum and their alloys.

Hazardous Decomposition Products: Decomposition products of the minor components of this compound may include potentially hazardous byproducts including carbon dioxide and carbon monoxide, ammonia or oxides of sulfur or nitrogen.

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure: Irritation of the eyes, nose, throat and lungs, a reduction in plasma calcium concentration that can lead to cardiac arrhythmias and reduced cardiac output.

Emergency Overview:

Likely Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)	LD50 Testing Data (as applicable)	LC50 Testing Data (as applicable)
Eye:	Liquid can cause stinging, tearing, redness and pain	Single	Severe	N/A	Eye	Not tested	Not tested
Skin:	Acidic liquid can irritate the skin.	Single & Repeated	Severe	N/A	Skin	Not tested	Not tested
Inhalation:	Acidic liquid can irritate the lungs.	Repeated	Severe	N/A	Lungs	Not tested	Not tested
Ingestion:	Acidic liquid can irritate the stomach.	Single	Severe	N/A	Stomach	Not tested	Not tested
Other:	N/A	N/A	N/A	N/A	N/A	Not tested	Not tested

Medical Conditions Aggravated by Exposure: Respiratory, skin conditions or eye conditions.

Carcinogenicity: None

DENTSPLY Tulsa Dental Specialties

12. ECOLOGICAL INFORMATION

Toxicity: LD50 rat, oral: >14g/kg; estimated from components. Not a carcinogen by NTP, IARC or OSHA.

Persistence and Degradability: No information found.

Bio-accumulative Potential: No information found.

Mobility in Soil: No information found.

Other Adverse Effects: No information found.

Results of PBT/vPvB Assessment: No information found.

13. DISPOSAL CONSIDERATIONS

Regulations: Dispose of container and unused contents in accordance with federal, state and local requirements.

Properties (Physical/Chemical) Affecting Disposal: None known

Waste Treatment Recommendations: Discard in trash; do not place in sewer system.

14. TRANSPORT INFORMATION

UN Identification Number: N/A

UN Proper Shipping Name: BIOPURE MTAD ANTIBACTERIAL ROOT CANAL CLEANSER LIQUID- PART A

Transport hazard class(es): Non-hazardous

Packing Group: DOT Class-NR

Special precautions for user: None

DENTSPLY Tulsa Dental Specialties

15. REGULATORY INFORMATION

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): Yes

Toxic Substances Control Act (TSCA): No

Clean Water Act (CWA): No

Clean Air Act (CAA): No

Superfund Amendments and Reauthorization Act (SARA) Title III Information: No

SARA Section 311/312 (40 CFR 370) Hazard Categories: No

Immediate Hazard:	N / A	Pressure Hazard:	N / A
Delayed Hazard:	N / A	Reactivity Hazard:	N / A
Fire Hazard:	N / A		

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

Components	C.A.S. #	WT %
N / A	N / A	N / A

State Regulations

California: This product contains the following chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
N / A	N / A	N / A

International Regulations

Canadian Environmental Protection Act: All the components of this material are on the Canadian Domestic Substance List (DSL).

Canadian Workplace Hazardous Materials Information System (WHMIS): D2B Classification

European Inventory of Existing Chemicals (EINECS): Not classified in Annex I or Directive 67/548/EEC.

DENTSPLY Tulsa Dental Specialties

16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3: To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber or natural latex. The product was not derived from animal products.

This information is based on our present knowledge; however, this shall not constitute a guarantee for a specific product features. No toxicity data are available for this specific formulation. This health hazard assessment is based on information that is available for its components.

This Safety Data Sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU. The information contained herein is accurate to the best of our knowledge.

DENTSPLY Tulsa Dental Specialties makes no warranty of any kind, express or implied, concerning the safe use of this material.

Date of SDS Preparation/Revision: 22nd March, 2011

Data Sources: Manufacturers' Data Sheets, PubChem & sources therein.