



# BRASSELER Triton (Part A)

## USA<sup>®</sup> Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
 Issue date: 11 February 2021 Revision date: 01 March 2021 Version: 2.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Trade name : Triton (Part A)

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Endodontic irrigation solution

#### 1.3. Supplier

Distributed by:  
 Brasseler U.S.A. Dental, LLC  
 One Brasseler Blvd  
 Savannah, GA 31419 U.S.A.  
 Toll-free: +1-800-841-4522  
 Fax: 888-610-1937  
 BrasselerUSA.com

Manufactured by:  
 Inter-Med, Inc. / Vista Dental Products  
 2200 South Street  
 Racine, WI 53404  
 T: (877)-418-4782

#### 1.4. Emergency telephone number

Emergency number : 800-424-9300 (North America) / +1 (703) 527-3887 (International)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 1	Causes serious eye damage

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
 Hazard statements (GHS US) : Causes skin irritation  
 Causes serious eye damage  
 Precautionary statements (GHS US) : Wash hands thoroughly after handling.  
 Wear eye protection, protective gloves.  
 If on skin: Wash with plenty of water.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Immediately call a doctor, a POISON CENTER.

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If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
1,2,4-Butanetricarboxylic acid, 2-phosphono-	CAS-No.: 37971-36-1	≤ 15	Met. Corr. 1, H290 Eye Irrit. 2A, H319
Citric acid	CAS-No.: 77-92-9	≤ 2	Met. Corr. 1, H290 Skin Irrit. 2, H315 Eye Dam. 1, H318 Comb. Dust
Sodium dodecylbenzenesulfonate	CAS-No.: 25155-30-0	≤ 2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
Alcohols, C9-11, ethoxylated, liquids	CAS-No.: 68439-46-3	≤ 2	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Polyethylene glycol 4-(tert-octylphenyl) ether, liquid	CAS-No.: 9002-93-1	≤ 2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium lauryl sulfate	CAS-No.: 151-21-3	≤ 2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
2-Ethylhexyl sodium sulfate	CAS-No.: 126-92-1	≤ 2	Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium cumenesulphonate	CAS-No.: 28348-53-0	≤ 2	Eye Irrit. 2, H319
Sodium hydroxide	CAS-No.: 1310-73-2	< 1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Rinse immediately with plenty of water for 15 minutes. Remove contaminated clothes. If skin irritation occurs: Get medical advice/attention.

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First-aid measures after eye contact	: In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: May cause gastric irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear personal protective equipment.
Emergency procedures	: Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

For containment	: Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel).
Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.

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### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible materials : None known.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Triton (Part A)	
No additional information available	
<b>1,2,4-Butanetricarboxylic acid, 2-phosphono- (37971-36-1)</b>	
<b>USA - AIHA - Occupational Exposure Limits</b>	
WEEL TWA	10 mg/m <sup>3</sup> (aerosol)
<b>Sodium hydroxide (1310-73-2)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Sodium hydroxide
ACGIH OEL C	2 mg/m <sup>3</sup>
Remark (ACGIH)	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2021
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Sodium hydroxide
OSHA PEL TWA [1]	2 mg/m <sup>3</sup>
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>USA - IDLH - Occupational Exposure Limits</b>	
IDLH	10 mg/m <sup>3</sup>
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL C	2 mg/m <sup>3</sup>
US-NIOSH chemical category	SK: DIR(COR) Apr 2011

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### Citric acid (77-92-9)

No additional information available

### Sodium dodecylbenzenesulfonate (25155-30-0)

No additional information available

### Alcohols, C9-11, ethoxylated, liquids (68439-46-3)

No additional information available

### Polyethylene glycol 4-(tert-octylphenyl) ether, liquid (9002-93-1)

No additional information available

### Sodium lauryl sulfate (151-21-3)

No additional information available

### 2-Ethylhexyl sodium sulfate (126-92-1)

No additional information available

### Sodium cumenesulphonate (28348-53-0)

No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Impermeable protective gloves

### Eye protection:

Chemical goggles or safety glasses

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Pale yellow.
Color	: Colorless
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available

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Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

#### 1,2,4-Butanetricarboxylic acid, 2-phosphono- (37971-36-1)

LD50 oral rat	> 4000 mg/kg
LD50 dermal rat	> 4000 mg/kg
LC50 Inhalation – Rat	> 1979 mg/m <sup>3</sup> (Exposure time: 4 h)

#### Sodium hydroxide (1310-73-2)

LD50 oral rat	325 mg/kg
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<b>Sodium hydroxide (1310-73-2)</b>	
LD50 dermal rabbit	1350 mg/kg
<b>Citric acid (77-92-9)</b>	
LD50 oral rat	3 g/kg
LD50 dermal rat	> 2000 mg/kg
<b>Sodium dodecylbenzenesulfonate (25155-30-0)</b>	
LD50 oral rat	500 mg/kg
<b>Alcohols, C9-11, ethoxylated, liquids (68439-46-3)</b>	
LD50 dermal rabbit	> 2000 mg/kg
ATE US (oral)	500 mg/kg body weight
<b>Polyethylene glycol 4-(tert-octylphenyl) ether, liquid (9002-93-1)</b>	
LD50 dermal rabbit	8000 mg/kg
ATE US (oral)	500 mg/kg body weight
<b>Sodium lauryl sulfate (151-21-3)</b>	
ATE US (oral)	500 mg/kg body weight
<b>2-Ethylhexyl sodium sulfate (126-92-1)</b>	
LD50 oral rat	4 g/kg

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: May cause gastric irritation.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product has not been tested.

<b>Sodium hydroxide (1310-73-2)</b>	
LC50 - Fish [1]	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	40.4 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 - Other aquatic organisms [1]	> 33 mg/l waterflea
<b>Citric acid (77-92-9)</b>	
LC50 - Fish [1]	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

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### Sodium dodecylbenzenesulfonate (25155-30-0)

LC50 - Fish [1]	10.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
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### 12.2. Persistence and degradability

#### Sodium cumenesulphonate (28348-53-0)

Persistence and degradability	Readily biodegradable.
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### 12.3. Bioaccumulative potential

#### 1,2,4-Butanetricarboxylic acid, 2-phosphono- (37971-36-1)

BCF - Fish [1]	(no bioaccumulation expected)
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#### Sodium hydroxide (1310-73-2)

Partition coefficient n-octanol/water (Log Pow)	-3.88
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#### Citric acid (77-92-9)

Partition coefficient n-octanol/water (Log Pow)	-1.72 (at 20 °C)
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#### Polyethylene glycol 4-(tert-octylphenyl) ether, liquid (9002-93-1)

Partition coefficient n-octanol/water (Log Pow)	1.3 – 2.4
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the ozone layer	: No additional information available
Other information	: Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

## SECTION 14: Transport information

In accordance with Department of Transport / Transportation of Dangerous Goods / IMDG / IATA

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
Not regulated for transport			
<b>14.2. Proper Shipping Name</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>			
Not applicable	Not applicable	Not applicable	Not applicable



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DOT	TDG	IMDG	IATA
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available.

### 15.2. International regulations

#### CANADA

No additional information available.

#### EU-Regulations

No additional information available.

#### National regulations

No additional information available.

### 15.3. US State regulations

No additional information available.

## SECTION 16: Other information

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Revision date : 01 March 2021

Other information : None.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.