

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** BluTube  
**Company Name:** ProEdge Dental Products  
 7042 South Revere Parkway  
 Suite 400  
 Centennial, CO 80112  
**Phone Number:** 1 (888)843-3343  
**Web site address:** www.proedgedental.com  
**Emergency Contact:** 1 (866)290-1830

**Intended Use:** Dental Unit Water Purification Cartridge

## 2. HAZARDS IDENTIFICATION

**Acute Toxicity: Inhalation, Category 4**

**Acute Toxicity: Skin, Category 4**



**GHS Signal Word:** **Warning**

**GHS Hazard Phrases:** H312+332 - Harmful in contact with skin or if inhaled.

**GHS Precautionary Phrases:** P261 - Avoid breathing dust/mist.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P280 - Wear protective gloves.

**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water. P362+364 - Take off contaminated clothing and wash it before reuse.  
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

**GHS Storage and Disposal Phrases:** P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.

**Additional Hazards Information** BluTube Dental Unit Waterline Purification Cartridge contains iodinated resin; however, it is contained in a sealed cartridge. The dental patient and staff will be exposed to the water that passes through the iodinated resin which is only expected to contain between 1-5 ppm of iodine. Therefore, no health hazards are expected during the normal use of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration	
60177-39-1	Functionalized styrene/divinylbenzene copolymer	23.0 -29.0 %	
7553-56-2	Iodine	40.0 -60.0 %	
7732-18-5	Water	19.0 -24.0 %	

**Additional Composition Information:** BluTube Dental Unit Waterline Purification Cartridge contains iodinated resin; however, it is contained in a sealed cartridge. The dental patient and staff will be exposed to the water that passes through the iodinated resin which is only expected to contain between 1-5 ppm of iodine. Therefore, no health hazards are expected during the normal use of this product.

## 4. FIRST AID MEASURES

### Emergency and First Aid Procedures:

<b>In Case of Inhalation:</b>	Not expected to present a significant inhalation hazard under anticipated conditions of use. If breathed in, move person into fresh air. Get medical aid if irritation develops and persists.
<b>In Case of Skin Contact:</b>	Not expected to be a primary route of exposure. Wash off with soap and plenty of water. Remove and wash contaminated clothing before reuse. If skin irritation or rash occurs, seek medical advice/attention.
<b>In Case of Eye Contact:</b>	Not expected to be a primary route of exposure. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
<b>In Case of Ingestion:</b>	Not expected to present a significant ingestion hazard under anticipated conditions of use. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Signs and Symptoms Of Exposure:</b>	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
<b>Note to Physician:</b>	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

## 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	No data.
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	800.60 F (427.0 C)
<b>Suitable Extinguishing Media:</b>	Not flammable. Use extinguishing agent suitable for type of surrounding fire. Use water fog, dry powder, carbon dioxide, appropriate foam.
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. Do not breathe vapors/fumes from fires or vapors from decomposition. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Runoff from fire control or dilution water may cause pollution.
<b>Flammable Properties and Hazards:</b>	Move container from fire area if it can be done without risk. Reaction with acetaldehyde or acetylene can be violent or explosive.
<b>Hazardous Combustion Products:</b>	Fire conditions can result in the formation of carbon monoxide and carbon dioxide, iodine vapors, and oxides of: nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Environmental Precautions:</b>	Do not let product enter storm drains, storm sewers, watersheds or water systems unless authorized.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Ensure adequate ventilation. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Spills produce a slipping hazard. Pick up and arrange disposal without creating dust. Sweep up and shovel. Spilled material should be considered contaminated and not be used. Keep in suitable, closed containers for disposal. After removal, flush contaminated area thoroughly with water.

## 7. HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** Use with adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Take precautionary measures against static discharges. Avoid contact with water until ready for use.

**Precautions To Be Taken in Storing:** Store in a cool, dry, well-ventilated area away from incompatible substances. Store between 32F - 104F. Do not store in direct sunlight. Store in original container. Keep container tightly closed. Do not allow to dry out during storage.

**Other Precautions:** Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
7553-56-2	Iodine	ACGIH TLV	TLV: 0.01 (IFV) ppm STEL: 0.1 ppm (V) CEIL: 0.1 ppm	
		OSHA PELs	CEIL: 0.1 ppm	

**Respiratory Equipment (Specify Type):** Ensure adequate ventilation.

**Eye Protection:** Safety glasses with side shields, if contact is likely.

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure.

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

**Engineering Controls (Ventilation etc.):** Facilities storing or utilizing this material should be equipped with an eyewash facility, and a safety shower is recommended.

**Work/Hygienic/Maintenance Practices:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Environmental Exposure Controls:** Do not let product enter storm drains, storm sewers, watersheds or water systems unless authorized.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** [ ] Gas [ ] Liquid [ X ] Solid

**Appearance and Odor:** Appearance: Blue cartridge containing iodinated resin beads.

**pH:** Neutral

**Melting Point:** No data.

**Boiling Point:** No data.

**Flash Pt:** No data.

**Evaporation Rate:** No data.

**Flammability (solid, gas):** Will burn only after evaporation of liquid.

**Explosive Limits:** LEL: No data. UEL: No data.

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

**Specific Gravity (Water = 1):** No data.

**Density:** No data.

**Solubility in Water:** No data.

**Octanol/Water Partition Coefficient:** No data.  
**Autoignition Pt:** 800.60 F (427.0 C)  
**Decomposition Temperature:** No data.  
**Viscosity:** No data.

## 10. STABILITY AND REACTIVITY

**Reactivity:** Reaction with acetaldehyde or acetylene can be violent or explosive. May be corrosive to metals.

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** Keep from freezing - product stability may be affected. Avoid temperatures above 45°C. Do not store in direct sunlight.

**Incompatibility - Materials To Avoid:** Strong oxidizing agents. Strong reducing agents, Acetylene, Acetaldehyde, Ammonia, Nitric acid, Alkali metals, Powdered metals.

**Hazardous Decomposition or Byproducts:** Fire conditions can result in the formation of carbon monoxide and carbon dioxide, iodine vapors, and oxides of: nitrogen.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

## 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** Epidemiology: No information available.  
Teratogenicity: No information available.  
Reproductive Effects: No information available.  
Mutagenicity: No information available.  
Neurotoxicity: No information available.  
Other Studies: CAS# 7553-56-2:  
Acute toxicity, LD50, Oral, Rat, 1530 mg/kg.

**Irritation or Corrosion:** Harmful in contact with skin or if inhaled.

**Symptoms related to Toxicological Characteristics:** Eye Contact: May cause irritation.  
Skin Contact: May cause skin irritation.  
Ingestion: May cause gastrointestinal disturbances. May cause irritation.  
Inhalation: Not a likely route of exposure.

**Sensitization:** Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Chronic Toxicological Effects:** None known.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

## 12. ECOLOGICAL INFORMATION

**General Ecological Information:** Environmental: No information available.  
Physical: No information available.

Other Studies: CAS# 7553-56-2:  
LC50, Rainbow trout (*Oncorhynchus mykiss*), fry, 530 ug/L, 96H  
LC50, Water Flea (*Daphnia magna*), 160 ug/L, 48H.

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Persistence and Degradability:** Not readily biodegradable.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** 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. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

### 14. TRANSPORT INFORMATION

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not regulated as a hazardous material.

**DOT Hazard Class:**

**UN/NA Number:**

**MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** Not regulated as a hazardous material.

**UN Number:**

**Packing Group:**

**Hazard Class:**

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Not regulated as a hazardous material.

**UN Number:**

**Packing Group:**

**Hazard Class:**

### 15. REGULATORY INFORMATION

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
60177-39-1	Functionalized styrene/divinylbenzene copolymer	No	No	No
7553-56-2	Iodine	No	No	No
7732-18-5	Water	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
60177-39-1	Functionalized styrene/divinylbenzene copolymer	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
7553-56-2	Iodine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes
7732-18-5	Water	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

**Regulatory Information:** EPA Registration Number: 84020-2

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

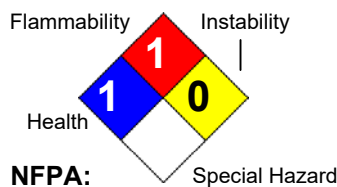
CAUTION. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wear goggles and plastic gloves when handling. Wash thoroughly with soap and water after handling tablets and before eating, drinking, chewing gum, using tobacco or using the toilet.

### 16. OTHER INFORMATION

**Revision Date:** 07/27/2021

**Previous revision:** 07/13/2017

**Hazard Rating System:**



**Additional Information:** 07/27/2021/2021 Updated section(s) all

**Company Policy or**

**Disclaimer:**

ProEdge Dental Products believes the above information to be accurate and represents the best information currently available. We make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. The information contained herein is offered in good faith and is intended only as a guide to the appropriate precautionary handling of the material/product by a properly trained person using the product. Regulatory requirements are subject to change and differ from one location to another. It is the buyer's (or user's) responsibility to ensure that its activities comply with Federal, State, and Local laws.