

Safety Data Sheet

ProEdge Dental Products, Inc.

Section 1: Identification

Product Identifier

Product Name

BluTube

Synonyms

Dental Unit Water Purification Cartridge

Relevant identified uses of the substance or mixture and uses advised against.

Recommended use

Consult Manufacturer for recommended product use.

Details of the supplier of the safety data sheet

Manufacturer

ProEdge Dental Products, Inc.
7042 South Revere Parkway, Suite 400
Centennial, CO 80112
United States
www.proedgedental.com
Telephone (General) 303-962-8820

Emergency Telephone Number

Manufacturer

888-843-3343

Manufacturer

866-290-1830 – 24 Hour

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Not classified

Label elements

OSHA HCS 2012

Hazard statements • No label element(s) required

Other Hazards

OSHA HCS 2012

• This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Canada

According to: WHMIS 2015

Classification of the substance or mixture

WHMIS 2015 • Not classified

Label elements

WHMIS 2015

Hazard statements • No label element(s) required

Precautionary statements

**Other hazards
 WHMIS 2015**

- In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3: Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Iodine	CAS:7553-56-2	40% TO 60%	Ingestion/Oral-Rat LD50 • 14 g/kg	OSHA HCS 2012: Skin Corr. 1C; Eye Dam. 1; Repr. 1A (Orl); STOT SE 3: Resp. Irrit. (Orl, Inhl); STOT RE 1 (Thyroid / Orl); Acute Tox. 4 (skn) WHMIS 2015: Skin Corr. 1C; Eye Dam. 1; Repr. 1A (Orl); STOT SE 3: Resp. Irrit. (Orl, Inhl); STOT RE 1 (Thyroid / Orl); Acute Tox. 4 (skn)	NDA
Functionalized styrene/divinylbenzene copolymer	NDA	23% TO 29%	NDA	OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA

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.

Section 4: First-Aid Measures

Description of first aid measures

- Inhalation** • Under normal conditions of use, no first aid measures are expected.
- Skin** • Under normal conditions of use, no first aid measures are expected.
- Eye** • If contact with material occurs flush eyes with water.
- Ingestion** • Under normal conditions of use, no first aid measures are expected.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media

In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media

No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Material is non-combustible and is not expected to pose a fire or explosion hazard.

Hazardous Combustion Products • Irritating, corrosive and/or toxic gases or fumes will be released during a fire.

Advice for firefighters • Wear positive pressure self-contained breathing apparatus (SCBA).
 Structural firefighters' protective clothing will only provide limited protection.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions • No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.

Emergency Procedures • No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

Environmental precautions • No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.

Methods and material for containment and cleaning up

Containment/Clean-up Measures • Carefully shovel or sweep up spilled material and place in suitable container.

Section 7: Handling and Storage

Precautions for safe handling

Handling • Use good safety and industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Storage • Store in a cool, dry place.

Section 8: Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Iodine (7553-56-2)	Ceilings	Not established	0.1 ppm Ceiling; 1 mg/m3 Ceiling	0.1 ppm Ceiling; 1 mg/m3 Ceiling
	STELs	0.1 ppm STEL (aerosol and vapor)	Not established	Not established
	TWAs	0.01 ppm TWA (inhalable fraction and vapor)	Not established	Not established

Exposure controls

Engineering

- Under normal conditions of use, special ventilation is not required.

Measures/Controls Personal Protective

Equipment

Respiratory

- No respiratory protection is required under normal conditions of use.

Eye/Face

Wear safety glasses.

Skin/Body

- No skin protection is ordinarily required under normal conditions of use.

Environmental Exposure Controls

- No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
 NIOSH = National Institute of Occupational Safety and Health
 OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures
 TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9: Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Blue cartridge (6.5" x0.5") containing iodinated resin beads.
Color	Blue	Odor	No data available
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	No data available	Water Solubility	No data available
Viscosity	No data available		

Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Avoid temperatures above 220°C. Keep from freezing. Protect against direct sunlight.

Incompatible materials

- Strong oxidizing agents. Nitric Acid. Ammonia. Powdered metals. Alkali metals. Strong reducing agents.

Hazard Decomposition products

- Iodine vapors. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Section 11: Toxicological Information

Information on toxicological effects

		Components
Iodine (40% TO 60%)	7553-56-2	<p>Acute Toxicity: Ingestion/Oral-Rat LD50 • 14 g/kg; Ingestion/Oral-Human TDLo • 25 mg/kg; <i>Lungs, Thorax, or Respiration: Respiratory obstruction; Lungs, Thorax, or Respiration: Dyspnea; Gastrointestinal: Hypermotility, diarrhea;</i> Inhalation-Human TCLo • 1 mg/m³; <i>Behavioral: Muscle weakness; Behavioral: Coma; Lungs, Thorax, or Respiration: Acute pulmonary edema;</i></p> <p>Multi-dose Toxicity: Ingestion/Oral-Woman TDLo • 864 mg/kg 26 Week(s)-Intermittent; <i>Endocrine: Evidence of thyroid hyperfunction; Skin and Appendages: Other: Hair; Nutritional and Gross Metabolic: Gross Metabolite Changes: Weight loss or decreased weight gain;</i></p> <p>Reproductive: Ingestion/Oral-Rabbit TDLo • 15 mg/kg (30-31D preg); <i>Reproductive Effects: Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive); Reproductive Effects: Effects on Newborn: Growth statistics (e.g., reduced weight gain)</i></p>
GHS Properties		Classification

Acute toxicity	OSHA HCS 2012• No data available WHMIS 2015• No data available
Skin corrosion/Irritation	OSHA HCS 2012• No data available WHMIS 2015• No data available
Serious eye damage/Irritation	OSHA HCS 2012• No data available WHMIS 2015• No data available
Skin sensitization	OSHA HCS 2012• No data available WHMIS 2015• No data available
Respiratory sensitization	OSHA HCS 2012• No data available WHMIS 2015• No data available
Aspiration Hazard	OSHA HCS 2012• No data available WHMIS 2015• No data available
Carcinogenicity	OSHA HCS 2012• No data available WHMIS 2015• No data available
Germ Cell Mutagenicity	OSHA HCS 2012• No data available WHMIS 2015• No data available
Toxicity for Reproduction	OSHA HCS 2012• No data available WHMIS 2015• No data available
STOT-SE	OSHA HCS 2012• No data available WHMIS 2015• No data available
STOT-RE	OSHA HCS 2012• No data available WHMIS 2015• No data available

Potential Health Effects

Inhalation

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Skin

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Eye

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Ingestion

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Key to abbreviations LD = Lethal Dose

TC= Toxic Concentration

TD= Toxic Dose

Section 12: Ecological Information

Toxicity

Non-mandatory section – information

- Non-mandatory section - information about this substance not compiled for this reason.

Persistence and degradability

- Non-mandatory section - information about this substance not compiled for this reason.

Bio accumulative potential

- Non-mandatory section - information about this substance not compiled for this reason.

Mobility in Soil

- Non-mandatory section - information about this substance not compiled for this reason.

Other adverse effects

- Non-mandatory section - information about this substance not compiled for this reason.

Section 13: Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14: Transport Information

	UN number	UN proper shipping name	Transport class(es)	hazard	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable		Not Applicable	NDA

Special precautions for user •None specified
 Transport in bulk according •No data available
Annex II of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications •None

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Iodine	7553-56-2	Yes	No	Yes

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

• Iodine	7553-56-2	Not Listed
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Canada - WHMIS 1988 - Ingredient Disclosure List

• Iodine	7553-56-2	1 %
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Environment

Canada - CEPA - Priority Substances List

• Iodine	7553-56-2	Not Listed
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United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Iodine	7553-56-2	Not Listed
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U.S. - OSHA - Specifically Regulated Chemicals

• Iodine	7553-56-2	Not Listed
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Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Iodine	7553-56-2	Not Listed
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U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Iodine	7553-56-2	Not Listed
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U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Iodine	7553-56-2	Not Listed
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Iodine	7553-56-2	Not Listed
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Iodine	7553-56-2	Not Listed
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U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Iodine	7553-56-2	Not Listed
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U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Iodine	7553-56-2	Not Listed
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United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Iodine	7553-56-2	Not Listed
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U.S. - California - Proposition 65 - Developmental Toxicity

• Iodine	7553-56-2	Not Listed
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U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Iodine	7553-56-2	Not Listed
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U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Iodine	7553-56-2	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Iodine	7553-56-2	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Iodine	7553-56-2	Not Listed
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Section 16: Other Information

Revision Date	13/July/2017
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