**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](http://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** • Material is non-combustible and is not expected to pose a fire or explosion hazard.

**Hazards**

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

**Products**

# 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** • Carefully shovel or sweep up spilled material and place in suitable container.

**Measures**

**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** • No special precautions expected to be necessary if material is used under ordinary

**Controls** conditions and as recommended.

**Key to abbreviations**

|  |  |
| --- | --- |
| ACGIH = American Conference of Governmental Industrial Hygiene | STEL = Short Term Exposure Limits are based on 15-minute exposures |
| NIOSH = National Institute of Occupational Safety and HealthOSHA = Occupational Safety and Health Administration | 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 220ºC. 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 | **Acute Toxicity:** Ingestion/Oral-Rat LD50 • 14 g/kg; Ingestion/Oral-Human TDLo • 25 mg/kg; *Lungs, Thorax, or* *Respiration*: **Respiratory obstruction**; *Lungs, Thorax, or Respiration*: **Dyspnea**; *Gastrointestinal*: **Hypermotility, diarrhea**; Inhalation-Human TCLo • 1 mg/m³; *Behavioral*: **Muscle weakness**; *Behavioral*: **Coma**; *Lungs, Thorax, or Respiration*: **Acute pulmonary edema**;**Multi-dose Toxicity:** Ingestion/Oral-Woman TDLo • 864 mg/kg 26 Week(s)-Intermittent; *Endocrine*: **Evidence of thyroid hyperfunction**; *Skin and Appendages: Other*: **Hair**; *Nutritional and Gross Metabolic: Gross Metabolite Changes*: **Weight loss or decreased weight gain**;**Reproductive:** Ingestion/Oral-Rabbit TDLo • 15 mg/kg (30-31D preg); *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)** |
| **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) Eye** | • | No data available |
| **Acute (Immediate)** | • | Under normal conditions of use, no health effects are expected. |
| **Chronic (Delayed)****Ingestion** | • | No data available |
| **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 hazard class(es)** | **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

**Canada - WHMIS 1988 - Ingredient Disclosure List**

•

Iodine

7553-56-2

1

 %

**Environment**

**Canada - CEPA - Priority Substances List**

•

Iodine

7553-56-2

Not Listed

**United States**

**Labor**

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

•

Iodine

7553-56-2

Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

•

Iodine

7553-56-2

Not Listed

**Environment**

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

•

Iodine

7553-56-2

Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

•

Iodine

7553-56-2

Not Listed

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

•

Iodine

7553-56-2

Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

•

Iodine

7553-56-2

Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

•

Iodine

7553-56-2

Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

•

Iodine

7553-56-2

Not Listed

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

•

Iodine

7553-56-2

Not Listed

**United States - California**

**Environment**

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

•

Iodine

7553-56-2

Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**

•

Iodine

7553-56-2

Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

•

Iodine

7553-56-2

Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

•

Iodine

7553-56-2

Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

•

Iodine

7553-56-2

Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

•

Iodine

7553-56-2

Not Listed

**Section 16: Other Information**

**Revision Date** 13/July/2017

**Last Revision** 20/June/2017

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