

SAFETY DATA SHEETS

This SDS packet was issued with item:

070903013

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070903005 070903039 078587282

Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 11.21.2017

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Patterson Super Concentrated Ultrasonic Enzymatic Solution

SECTION 1: Identification

Product identifier

Product name: Patterson Super Concentrated Ultrasonic Enzymatic Solution

Product code: 070903013, 070903005, 070903039, 078587282

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

Supplier

Patterson Dentaire Canada Inc.
1205 boul Henri-Bourassa West
Montreal (Québec) H3M 3E6
+1 514-745-4040

Emergency telephone number:

Canada

CHEMTREC

Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

SECTION 2: Hazard identification

GHS classification:

Eye irritation, category 2A

Respiratory sensitization, category 1

Reproductive toxicity, category 1B

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H319 Causes serious eye irritation

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H360 May damage fertility or the unborn child

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Precautionary statements:

P264 Wash skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P285 In case of inadequate ventilation wear respiratory protection
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P304+P341 If inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P308+P313 If exposed or concerned: Get medical advice/attention
P405 Store locked up
P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 57-55-6	Propylene Glycol	10-20
CAS number: 67-63-0	Isopropyl Alcohol	1-10
CAS number: 102-71-6	Triethanolamine	1-10
CAS number: 10043-35-3	Boric acid	1-5
CAS number: 9014-01-1	Subtilisin A Substrate	0.1-1

Additional Information: None

SECTION 4: First-aid measures

Description of first-aid measures

General notes:

Not determined or not available.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention

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Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open

Remove contact lenses, if present and easy to do so

Continue rinsing for 15-20 minutes

Get medical advice if eye irritation persists

After ingestion:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not available.

Delayed symptoms and effects:

Not determined or not available.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not available.

Notes for the doctor:

Not determined or not available.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal

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binders)

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Canada	Propylene Glycol	57-55-6	Ontario OELs - 8-Hour TWA Exposure Value: 50 ppm (155 mg/m ³) [Vapor and aerosol]
	Propylene Glycol	57-55-6	Ontario OELs - 8-Hour TWA Exposure Value: 10 mg/m ³ (Aerosol only)
	Triethanolamine	102-71-6	Alberta OELs - 8-Hour TWA Exposure Limit: 5 mg/m ³
	Triethanolamine	102-71-6	British Columbia OELs - 8-Hour TWA Exposure Value: 5 mg/m ³
	Triethanolamine	102-71-6	Manitoba OELs - 8-Hour Exposure Limit (TLV-TWA): 5 mg/m ³
	Triethanolamine	102-71-6	Ontario OELs - 8-Hour TWA Exposure Value (TWA): 0.5 ppm (3.1 mg/m ³)
	Triethanolamine	102-71-6	Quebec OELs - 8-Hour TWA Exposure Value: 5 mg/m ³
	Triethanolamine	102-71-6	Saskatchewan OELs - 8 Hour Average Contamination Limit: 5 mg/m ³
	Triethanolamine	102-71-6	Saskatchewan OELs - 15 Minute Average Contamination Limit: 10 mg/m ³
	Isopropyl Alcohol	67-63-0	Alberta TWA 8-hr: 492 mg/m ³ (200 ppm); STEL 15-min: 984 mg/m ³ (400 ppm)
	Isopropyl Alcohol	67-63-0	British Columbia TWA 8-hr: 200 ppm; STEL 15-min 400 ppm
	Isopropyl Alcohol	67-63-0	Manitoba TLV-TWA 8-hr: 200 ppm; STEL 15-min 400 ppm

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Isopropyl Alcohol	67-63-0	Ontario TWA 8-hr: 200 ppm; STEL 15-min: 400 ppm
	Isopropyl Alcohol	67-63-0	Quebec TWA 8-hr: 983 mg/m ³ (400 ppm); STEL 15-min: 1,230 mg/m ³ (500 ppm)
	Isopropyl Alcohol	67-63-0	Saskatchewan TWA 8-hr: 200 ppm; STEL 15-min: 400 ppm
ACGIH	Boric acid	10043-35-3	ACGIH TLV TWA 2.0 mg/m ³ , inhalable fraction
	Boric acid	10043-35-3	ACGIH STEL 6.0 mg/m ³
	Subtilisin A Substrate	9014-01-1	TLV Ceiling 0.00006 mg/m ³ (as active crystalline enzyme)
NIOSH	Subtilisin A Substrate	9014-01-1	REL ST 0.00006 mg/m ³ [60-minute]

Biological limit values:

Substance	Identifier	Determinant	Sampling time	Permissible limits
Isopropyl Alcohol	67-63-0	Acetone	End of shift at end of workweek.	40 mg/L

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

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Information on basic physical and chemical properties

Appearance (physical state, color):	Clear, green-colored liquid
Odor:	Mint
Odor threshold:	Not determined or not available.
pH-value:	7
Melting/Freezing point:	Not determined or not available.
Boiling point/range:	Not determined or not available.
Flash point:	>200°F
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Not flammable.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	Not determined or not available.
Vapor density:	Not determined or not available.
Density:	Not determined or not available.
Relative density:	1.03 at 35°C
Solubilities:	Complete
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	Not determined or not available.
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

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Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Subtilisin A Substrate	Causes skin irritation.

Serious eye damage/irritation

Assessment: Causes serious eye irritation

Product data:

No data available.

Substance data:

Name	Result
Isopropyl Alcohol	Causes serious eye irritation.
Subtilisin A Substrate	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment: May cause allergy or asthma symptoms or breathing difficulties if inhaled

Product data:

No data available.

Substance data:

Name	Result
Subtilisin A Substrate	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Isopropyl Alcohol	Group 3 - Not classifiable as to its carcinogenicity to humans
Triethanolamine	Group 3 - Not classifiable as to its carcinogenicity to humans

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: May damage fertility or the unborn child

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Product data:

No data available.

Substance data:

Name	Result
Boric acid	May damage fertility or the unborn child.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Isopropyl Alcohol	Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.
Subtilisin A Substrate	Specific Target Organ Toxicity, Single Exposure - May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

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Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

Canadian Transportation of Dangerous Goods (TDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

Canada regulations

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Domestic substances list (DSL):

57-55-6	Propylene Glycol	Listed
67-63-0	Isopropyl Alcohol	Listed
102-71-6	Triethanolamine	Listed
10043-35-3	Boric acid	Listed
9014-01-1	Subtilisin A Substrate	Listed

Non-domestic substances list (NDSL): Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-1-0

HMIS: 2-1-0

Initial preparation date: 11.21.2017

End of Safety Data Sheet