

SAFETY DATA SHEETS

This SDS packet was issued with item:

070909713

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

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Safety Data Sheet

According to Canadian Hazardous Products Regulations (HPR) SOR/2022-272

Initial preparation date: 2000.06.08

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Revision date: 2024.07.22

Patterson Ultra Type 4 Tartar and Stain Remover

SECTION 1: Identification

Product identifier

Product name: Patterson Ultra Type 4 Tartar and Stain Remover

Synonyms: Sulfamic Acid Solution

Product code: 070909713

Recommended use of the product and restrictions on use

Recommended use: Tartar and stain removing ultrasonic solution.

Restrictions on use: Any use other than recommended above.

Reasons for restrictions on use: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

Canada

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

Emergency telephone number:

Canada

CHEMTREC

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

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

SECTION 2: Hazard identification

Classification in accordance with Canadian Hazardous Products Regulations (HPR) SOR/2022-272, GHS Revision 7 and certain provision of GHS Revision 8.

Hazard Classification

Skin corrosion, category 1C

Serious eye damage, category 1

Label elements

Hazard pictograms:



Signal Word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

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Precautionary statements:

P102 Keep out of reach of children
P260 Do not breathe dust/fume/gas/mist/vapours/spray
P264 Wash any exposed skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P310 Immediately call a POISON CENTER or doctor
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label)
P363 Wash contaminated clothing before reuse
P405 Store locked up
P501 Dispose of contents and container in accordance with local, regional, national, and international regulations

Health Hazards not otherwise classified (HHNOC):

None

Physical Hazards not otherwise classified (PHNOC):

None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 5329-14-6	Sulfamic Acid	5-10

Additional Information: None

SECTION 4: First-aid measures

Description of first-aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

After skin contact:

Treatment is urgent. Seek emergency medical treatment. Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse.

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After eye contact:

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

After ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. Seek immediate medical attention.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning sensation in the throat and chest, nausea, vomiting, shock or collapse.

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment

Specific treatment:

In case of eye contact, seek prompt medical attention while rinsing is continued.
In case of skin contact, seek prompt medical attention while rinsing is continued.
In case of ingestion, seek prompt medical attention.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards arising from the product:

During a fire, pressure increase inside of containers may result in container rupture. Thermal decomposition may produce irritating and toxic fumes/gases including sulfur oxides and ammonia.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Prevent skin contact. Do not get in eyes. Use only with adequate ventilation. Do not add water to the corrosive product. If it is necessary to mix a corrosive product with water, do so slowly adding the corrosive to cold water, in small amounts, and stir frequently. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use. Keep only in original packaging.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight and away from exit paths. Store in a corrosion-resistant container with a resistant inner liner. Inspect containers and storage area regularly for signs of leak and damage. Store containers at a convenient height for handling, below eye level if possible. High shelving increases the risk of dropping containers, personal injury and exposure. Ensure that appropriate firefighting and spill-clean up equipment is readily available. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Store separately. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

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Individual protection measures, such as personal protective equipment (PPE)

Eye and face protection:

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Full body protection should be worn. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Colour	Clear
Odour	Sweet
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	214 °F (101 °C)
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Flash point	210 °F (99 °C) [Tag Closed Cup]
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
pH	0.3 - 0.7
Kinematic viscosity	Not determined or not available.
Solubility	Water soluble
Partition coefficient — n-octanol/water	Not determined or not available.
Vapour pressure	Not determined or not available.
Density	Not determined or not available.
Relative density	1.09 (Ref: water = 1)
Relative vapour density	Not determined or not available.
Particle characteristics	Not determined or not available.

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Other information:

Percent volatile	86%
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SECTION 10: Stability and reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions:

Sulphamidic acid reacts violently with chlorine, nitric acid and strong bases. Attacks many metals to produce highly flammable hydrogen gas.

Conditions to avoid:

Avoid generation of aerosols and mists, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible materials:

Chlorine; Nitric acid; Strong Bases; Oxidizing agents; Ammonia; Amines; Isocyanates; Metals

Hazardous decomposition products:

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

SECTION 11: Toxicological information

Acute toxicity

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

Product data: No data available.

Substance data:

Name	Route	Result
Sulfamic Acid	dermal	LD50 Rat: >2000 mg/kg
	oral	LD50 Rat: 2065 mg/kg

Skin corrosion/irritation

Assessment:

Causes severe skin burns and eye damage.

Product data: No data available.

Substance data:

Name	Result
Sulfamic Acid	Causes skin irritation.

Serious eye damage/irritation

Assessment:

Causes serious eye damage.

Product data: No data available.

Substance data:

Name	Result
Sulfamic Acid	Causes serious eye irritation.

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Respiratory or skin sensitization

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

Product data: No data available.

Substance data: No data available.

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): None of the ingredients are listed.

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

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment:

Causes damage to organs.

Product data: No data available.

Substance data: No data available.

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:

Skin contact, ingestion, inhalation, eye contact.

Symptoms related to the physical, chemical and toxicological characteristics:

See section 4 of this SDS.

Other information:

No additional information.

SECTION 12: Ecological information

Acute (short-term) toxicity

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

Product data: No data available.

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Substance data:

Name	Result
Sulfamic Acid	Fish LC50 Pimephales promelas: 70.3 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 71.6 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Desmodemus subspicatus: 48 mg/L (72 hr [growth rate])

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
Sulfamic Acid	Fish NOEC Danio rerio: >60 mg/L (34 d)
	Aquatic Invertebrates NOEC Daphnia magna: 19 mg/L (21 d [reproduction])
	Aquatic Invertebrates EC50 Daphnia magna: >60 mg/L (21 d [reproduction])

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Sulfamic Acid	Persistence and degradability studies do not apply to inorganic substances.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Sulfamic Acid	Considering the central role of sulfamic acid in metabolism, the bioaccumulation concept does not apply to this substance. The high water solubility inorganic substance indicates that there is no body lipid storage potential or potential for bioaccumulation via the food chain.

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Sulfamic Acid	The substance is inorganic and well soluble in water. Thus, adsorption to organic matter is not expected and the substance is considered mobile in the environment.

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

Sulfamic Acid	This substance is inorganic, PBT assessment does not apply.
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vPvB assessment:

Sulfamic Acid	This substance is inorganic, vPvB assessment does not apply.
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Other adverse effects:

No additional information.

SECTION 13: Disposal considerations

Disposal methods:


It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional and national regulations.

Contaminated packages:


Not determined or not applicable.

SECTION 14: Transport information


Canadian Transportation of Dangerous Goods (TDG)

UN number	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (Sulphamidic acid)
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None
Excepted quantities	60 L
Limited quantity	5 L

International Maritime Dangerous Goods (IMDG) Code

UN number	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (Sulphamidic acid)
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None
EMS number	F-A, S-B
Stowage category	A
Excepted quantities	E1
Limited quantity	5 L

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

UN number	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (Sulphamidic acid)
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None
ERG code	8L
Excepted quantities	E1

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Passenger and cargo	5 L
Cargo aircraft only	60 L
Limited quantity	1 L

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL): All ingredients are listed or exempt.

Non-domestic substances list (NDSL): None of the ingredients are listed.

Additional information: No additional information.

SECTION 16: Other information

Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations (HPR) SOR/2022-272, GHS Revision 7 and certain provision of GHS Revision 8. 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.

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Revision Notes:

Revision Date	Notes
2024-07-22	Version 2; Supersedes Version 1 (2000.06.08)

End of Safety Data Sheet