

## SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

### Section 1. Identification of the material and the supplier

Product: **Path-X™**  
 Product Use: Disinfectant  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Biologix**  
 Address: 10 Opawa St  
 Blenheim 7201

Telephone: 021 1901051  
**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 7 July 2021

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: Cleaning Products (Corrosive) – HSR002526**

#### Pictograms



Corrosive

Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin corrosion Cat. 1B	H314	Causes severe skin burns.
Serious eye damage Cat. 1	H318	Causes serious eye damage.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P301 +	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Product Name: Path-X  
 Date of SDS: 7 July 2021

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd  
 Tel: 64 9 475 5240 www.techcomp.co.nz

P330+P331	
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

<b>Storage Code</b>	<b>Storage Statement</b>
P405	Store locked up.

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Dispose of according to Local Regulations or Authorities

<b>Section 3.</b>	<b>Composition / Information on Hazardous Ingredients</b>
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<b>Ingredients</b>	<b>Wt%</b>	<b>CAS NUMBER.</b>
Didecyl dimethyl ammonium chloride	10 - 20	7173-51-5
Water	To bal	7732-18-5

<b>Section 4.</b>	<b>First Aid Measures</b>
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Routes of Exposure:

**If in Eyes**                      Immediately rinse with plenty of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water and urgently contact a physician or poisons information centre. Transport to hospital or medical centre if severe aggravation of the ocular area occurs.

**If on Skin**                        Immediately wash contaminated skin with plenty of water using safety shower if available. Remove contaminate clothing and footwear. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

**If Swallowed**                    Immediately rinse mouth with water (only if patient is conscious) and consult a physician or call the Poisons Information Centre. DO NOT induce vomiting due to risk of further damage. Give water or milk to drink if patient is conscious.

**If Inhaled**                         Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

**Most important symptoms and effects, both acute and delayed**

Symptoms:

- Ingestion:**                      Not applicable.
- Inhalation:**                    Not applicable.
- Skin:**                             Causes severe skin burns.
- Eye:**                             Causes serious eye damage.

<b>Section 5.</b>	<b>Fire Fighting Measures</b>
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<b>Hazard Type</b>	Non Flammable
<b>Hazards from decomposition products</b>	May evolve toxic gases (carbon/nitrogen oxides, ammonia, chlorides, hydrocarbons) when heated to decomposition.
<b>Suitable Extinguishing</b>	Compatible with dry chemical, regular foam and carbon dioxide fire extinguishing media.

<b>media</b>	
<b>Precautions for firefighters and special protective clothing</b>	Fire fighters recommended to wear SCBA. Contain run-off to prevent entry in water or drainage systems.
<b>HAZCHEM CODE</b>	<b>2X</b>

**Section 6. Accidental Release Measures**

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Do not allow to enter drains and water courses.

**Small Spills:** Clean up all spills immediately. Avoid breathing vapours and contact with eyes and skin. Contain and absorb spill with sand, earth, inert material or vermiculite. Place in a suitable container for disposal.

**Large Spills:** Contain spill with sand, earth or vermiculite. Collect recoverable product into labeled containers for disposal. Wash area with water and prevent run off from entering drains. If contamination of drains or waterways occurs advise emergency services.

Dispose of in compliance with local and/or national regulations as per Section 13.

**Section 7. Handling and Storage**

**Precautions for Handling:**

- Read label before use.
- Do not breathe fumes, vapours or spray.
- Prohibit eating, drinking and smoking in contaminated areas.
- Wash hands thoroughly after handling.
- Wear protective clothing as required.

**Precautions for Storage:**

- Keep out of reach of children.
- Store locked up.
- Store in a cool, dry area in original sealed container.
- Do not store in prolonged sunlight.
- Do not store with oxidising agents, ignition sources or foodstuffs.

**Section 8 Exposure Controls / Personal Protection**

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

<b>Substance</b>	<b>TWA</b> ppm mg/m <sup>3</sup>	<b>STEL</b> ppm mg/m <sup>3</sup>
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No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11<sup>TH</sup> EDITION.

**Engineering Controls**

Maintain adequate ventilation at all times. A system of local and/or general exhaust is recommended when an inhalation risk exists.

**Personal Protection Equipment**

<b>Eyes</b>	Safety glasses with side shields or a face shield complying with AS/NZS 1337. Avoid wearing contact lenses.
<b>Skin</b>	Wear gloves of an impervious material conforming to AS/NZS 2161, rubber boots, overalls, plastic apron.
<b>Respiratory</b>	Suitable respiratory equipment (e.g. disposable fume mask conforming to AS/NZS 1716) is required when spray mist is present.
<b>General</b>	Ensure access to safety shower and eyewash station. Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking and going to the toilet.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Clear Colourless
<b>Odour</b>	Slight
<b>Odour Threshold</b>	Not available
<b>pH</b>	5-8
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not flammable or combustible
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Specific Gravity</b>	0.99
<b>Water Solubility</b>	Fully miscible
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not available
<b>Conditions to Avoid</b>	Avoid extreme heat, flames and ignition sources.
<b>Incompatible Materials</b>	Oxidising agents.
<b>Hazardous Decomposition Products</b>	May evolve toxic gases (carbon/nitrogen oxides, ammonia, chlorides, hydrocarbons) when heated to decomposition.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not triggered however capable of causing burns to mouth, throat, oesophagus.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not triggered however vapours or mist are irritating to the nose and

	throat. May cause coughing, nausea and headache. Occupational exposure to similar compounds has been reported to cause asthma, although this is rare.
<b>Eye</b>	Causes serious eye damage.
<b>Skin</b>	Causes severe skin burns. Repeated or prolonged skin contact may cause dermatitis.

**Chronic Effects:**

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

**Individual component information:**

**Acute Toxicity:**

<b>Chemical Name</b>	<b>Oral – LD50</b>	<b>Dermal – LD50</b>	<b>Inhalation – LC50</b>
Didecyl dimethyl ammonium chloride (7173-51-5)	238 mg/kg (rat)	>1000mg/kg (Rat)	>2.06mg/L(Rat)

**Section 12. Ecotoxicological Information**

This product is not hazardous to the environment.

<b>Product:</b>	
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

<b>Acute toxicity (fish):</b>	LC50 (96 hr) 0.58 mg/L
<b>Acute toxicity (daphnia):</b>	EC50 (48 hr) 0.087 mg/L for the active ingredient
<b>Acute toxicity (algae):</b>	EC50 (72 hr) 0.16 mg/L for the active ingredient
<b>Persistence/Degradability (ingredients only):</b>	Didecyl dimethyl ammonium chloride is readily biodegradable (complies with the biodegradability criteria in regulation (EC) No. 648/2004 on detergents).

**Section 13. Disposal Considerations**

**Disposal Method:**

Triple or preferably pressure rinse containers before disposal. Dispose of used container in accordance all local and national regulations. Recycle containers if possible (replace cap and return cleaned container to recyclers or collection point). If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burned.

**Precautions or methods to avoid:** Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Corrosive" and that the label also has the Corrosive Pictogram, waste type identifier, and the business name, address, and phone number.

**Section 14****Transport Information**

This product is classified as a **Dangerous Good for transport in NZ ; NZS 5433:2012**

**Road, Rail, Sea and Air Transport**

<b>UN No</b>	1760
<b>Class - Primary</b>	8
<b>Packing Group</b>	II
<b>Proper Shipping Name</b>	CORROSIVE LIQUID N.O.S (Didecyl dimethyl ammonium chloride)
<b>Marine Pollutant</b>	No
<b>Special Provisions</b>	If the product's individual container is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

**Section 15****Regulatory Information**

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Cleaning Products (Corrosive) – HSR002526

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	250L
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

**Section 16****Other Information****Glossary**

Cat	Category
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

**References:**

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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