

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**
**1.1 Product Identifier**

Product Name: **PrevaClean 9405**  
 Chemical Family: N/Av  
 CAS Number: 7722-84-1

**1.2 Relevant Identified Uses**

Product Intended Uses: Sanitizer. Oxidizing Agent. Bleach & Water Chemicals

**1.3 Supplier Details**

Name & Address: Evergreen Solutions  
 64210, 393 Loop East  
 Okotoks, AB T1S 0L1  
 SDS Contact: [hbrar@evergreensolutions.com](mailto:hbrar@evergreensolutions.com)

**1.4 Emergency Contact**

Emergency Telephone: 1-613-996-6666 (CANUTEC) or 403-554-1402  
 Opening Hours: 1-800-610-5907 (M-F, 8am-5pm, MST) or +1 403 554-1402 (24 hours)

**SECTION 2: HAZARD IDENTIFICATION**
**2.1 Substance/Mixture Classification**

Hazard Classification: Serious Eye Damage/Eye Irritation (Category 2A)  
 Skin Corrosion/Irritation (Category 2B)

**2.2 Label Elements**

Hazard Pictogram(s):



Signal Word: **WARNING**  
 Hazard Statement(s): Causes serious eye irritation.  
 Causes skin irritation.

Precautionary Statement(s)

Prevention: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: Wash face, hands, and any exposed skin thoroughly after handling.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor  
IF ON SKIN: Wash with plenty of water and soap. Take off all contaminated clothing and wash it before reuse.  
IF SKIN IRRITATION OCCURS: Get medical advice/ attention.  
IN CASE OF FIRE: Use water for extinction.

Storage: No specific data.

Disposal: Dispose content/container to appropriate treatment and disposal plan in accordance with applicable laws and regulation, and product characteristic at time of disposal.

**2.3 Other Hazards**

Other Hazard Classification: None known.

### SECTION 3: COMPOSITION/INGREDIENT INFORMATION

#### 3.1 Substances

Ingredient Name	Identifiers	% W/W
Hydrogen Peroxide	Cas No.: 7722-84-1	1 – 5

*Note: Any concentration shown as a range is to protect confidentiality or is due to batch variation.*

***There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.***

***Occupational exposure limits, if available, are listed in Section 8.***

### SECTION 4: FIRST-AID MEASURES

#### 4.1 Description of First Aid Measures

Eye Contact:	Check for and remove any contact lenses. Do not rub eyes. Irrigate copiously with clean water for at least 15 minutes. Call a physician if irritation develops.
Skin Contact:	In the case of skin irritation or allergic reactions, wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Inhalation:	Remove affected victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Loosen tight clothing such as a collar, tie, belt, or waistband.
Ingestion:	Rinse out mouth with water. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.
First Aid Protection:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 4.2 Most Important Symptoms & Effects (Acute and Delayed)

Eye Contact:	Causes eye irritation.
Skin Contact:	May cause skin irritation.
Inhalation:	No specific data.
Ingestion:	No specific data.

#### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Physician Notes:	Treat symptomatically.
Specific Treatments:	No specific treatment.



## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

Suitable Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Media: Not available.

### 5.2 Special Hazards from Substance/Mixture

Hazards from substance: Carbon oxides may cause hazardous decomposition. Isolate and restrict area access. Fight fire from a safe distance and from a protected location. Stop leak only if safe to do so.

Hazardous Combustion

Products: Not available.

### 5.3 Advice for Firefighters

Special Protective Actions: Product is combustible liquid. Vapour may travel along ground and flash back along vapour trail. Will burn if involved in a fire.

Special Protective

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Non-emergency Personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Emergency Responders: Use personnel protection recommended in Section 8 to deal with the spillage. See also the information in "Non-emergency Personnel".

### 6.2 Environmental Precautions

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

### 6.3 Methods and Materials of Containment and Cleanup

Small Spill: Flush area with water.

Large Spill: Dike with earth, sand or inert sorbent material to contain spill. Place in suitable container for disposal. Flush area with water. Keep materials which can burn away from spilled materials. Spontaneous combustion hazard: combustible materials exposed to hydrogen peroxide should be immediately submerged in or rinsed with large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that can dry (upon evaporation hydrogen peroxide can concentrate) on organic

materials such as paper, fabrics, cotton, leather, wood or other combustibles, can cause the material to ignite and result in a fire.

#### 6.4 Reference to Other Sections

Additional Sections:

See Section 7 for handling and storage information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

### SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for Safe Handling

Protective Measures:

Handle and open containers with care. Never touch eyes of face with hands or gloves that may be contaminated with this product. Do not ingest. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.

General Occupational

Hygiene Advice:

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for Safe Storage and Incompatibilities

Safe Storage:

Keep containers tightly closed in a dry, cool, and well-ventilated place. Store locked up. Keep out of the reach of children.

Incompatibilities:

Strong acids. Strong oxidizing agents. Strong bases

#### 7.3 Specific End Use(s)

Recommendations:

When product is used in confined space, the use of proper ventilation is required.

Industrial Sector Specific

Solutions:

Not available.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control Parameters

Occupational Exposure  
Limits:

Ingredient	ACGIH	OSHA	NIOSH
Hydrogen Peroxide	1 ppm TWA	1 ppm (1.4 mg/m <sup>3</sup> ) TWA	75 ppm IDLH 1 ppm (1.4 mg/m <sup>3</sup> ) TWA



Recommended

Monitoring Procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference to national guidance documents for methods for the determination of hazardous substances will be required.

DNELs/DMELs: No DNELs/DMELs available.

PNECs: No PNECs available.

## 8.2 Exposure Controls

Engineering Controls: Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Make up air should always be supplied to balance air exhausted (either generally or locally). Ventilation required when spraying or applying in a confined area. Ventilation should be explosion proof. Eliminate ignition sources.

### Individual Protection Measures

Hygiene Measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection. **Tightly sealed safety goggles.**

### Skin Protection

Protective Handwear: **Natural rubber gloves. Butyl rubber gloves. Nitrile gloves.** 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.

Body Protection: Long sleeved clothing. Wash contaminated clothing and dry thoroughly before reuse. Impervious boots of chemically resistant material should be worn at all times. Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Other Skin Protection: Skin contact should be prevented using suitable protective clothing, gloves, and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability

Respiratory Protection:	as well as permeation resistance. Ensure that eyewash stations and safety showers are proximal to the work-station location. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental Exposure Controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

#### Appearance

Physical State:	Clear Liquid
Color:	Colorless
Odor:	Slight
Odor Threshold:	N/E
pH Factor:	6 – 7
Melting/Freezing Point:	0°C (32°F)
Boiling Point (°C):	119°C (246.2°F)
Flash Point:	N/Av
Evaporation Rate:	N/E
Flammability:	N/Av
Explosive Limits:	None
Vapor Pressure:	48 Pa @ 30°C
Vapor Density (air = 1):	N/Av
Relative Density:	1.022
Solubility(ies):	N/Av
Partition Coefficient:	N/Av
Auto-ignition Temperature:	N/E
Decomposition Temp.:	N/Av
Viscosity:	1.8 mPa.s @ 0°C
Explosive Properties:	N/E
Oxidizing Properties:	Yes

### 9.2 Other Information

Solubility in Water:	Miscible
Pour Point:	N/Av

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	No specific data.
<b>10.2 Chemical Stability:</b>	Stable under normal conditions.

- 10.3 Possibility of Hazardous Reactions:** Reacts with oxidizing agents.
- 10.4 Conditions to Avoid:** No specific data.
- 10.5 Incompatible Materials:** Strong acids. Strong oxidizing agents. Strong bases.
- 10.6 Hazardous Decomposition Product(s):** Carbon oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Toxicological Effects Information

#### Acute Toxicity

- Oral: LD50 (oral, rat): 801 mg/kg
- Dermal: LD50 (dermal, rabbit): 2000 mg/kg  
 LD50 (dermal, rat): 4060 mg/kg
- Inhalation: LC50 (inhalation, rat): 2g/m<sup>3</sup>/4h

#### Irritation/Corrosion

- Skin: May cause skin redness.
- Eyes: Causes eye irritation.

#### Sensitization

- Conclusion/Summary: Is not a skin sensitizer.

#### Mutagenicity

- Conclusion/Summary: No adverse mutagenic effects are anticipated.

#### Carcinogenicity

- Conclusion/Summary: IARC (International Agency for Research on Cancer); Group 3 – Not Classifiable as Carcinogenicity in Humans.

#### Reproductive Toxicity

- Conclusion/Summary: It is not possible to conclude that hydrogen peroxide is mutagenic.

#### Teratogenicity

- Conclusion/Summary: No adverse teratogenic effects are anticipated.

#### Specific Target Organ Toxicity – Single Exposure

- Conclusion/Summary: Not available.

#### Specific Target Organ Toxicity – Single Exposure

- Conclusion/Summary: Not available.

#### Aspiration Hazard

- Conclusion/Summary: Not available.
- Likely Routes of Exposure: Oral, Dermal, Inhalation, Ingestion.

#### Potential Acute Health Effects

- Eye Contact: No specific data.
- Inhalation: No specific data.
- Skin Contact: No specific data.
- Ingestion: No specific data.

#### Physical, Chemical and Toxicological Symptoms

- Eye Contact: No specific data.
- Inhalation: No specific data.
- Skin Contact: No specific data.
- Ingestion: No specific data.

#### Delayed and Immediate Effects and Chronic Effects from Short and Long-Term Exposure

##### Short Term Exposure



Potential Immediate Effects: Not available.  
 Potential Delayed Effects: No specific data.  
 Other information: Not available

## SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity:** Not Available.  
**12.2 Persistence & Degradability:** Not Available.  
**12.3 Bioaccumulative Potential:** Not Available.  
**12.4 Mobility in Soil:** Not Available.  
**12.5 PBT and vPvB Assessment:** This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
**12.6 Other Adverse Effects:** None.

## SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste Treatment

#### Product

**Disposal Methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous Waste:** The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Disposal Methods:** The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special Precautions:** This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: TRANSPORT INFORMATION

		ADR	DOT	TDG	IMO/IMDG	ICAO/IATA
14.1	UN Number	-	-	-	-	-



14.2	UN Shipping Name	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3	Transport Hazard Class(es)	-	-	-	-	-
14.4	Packaging Group	-	-	-	-	-
14.5	Environmental Hazards	No	No	No	No	No

**14.6 Special User Precautions:** **Transport within user's premises:** Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Bulk Transportation:** *Transportation in bulk accordance to Annex II of Marpol 73/78 and IBC Code.*

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, Health & Environmental Regulations/Legislation**

**US Federal Regulations**

**OSHA**

This material is classified as hazardous under OSHA regulations (29 CFR 1910.1200) (HazCom 2012).

Hazardous classification:

Serious Eye Damage/Eye Irritation (Category 1)

Oxidizing Liquids (Category 2)

Skin Corrosion/Irritation (Category 2B)

Specific Target Organ Toxicity – Single Exposure (Category 3)

Acute toxicity – Oral (Category 4)

Acute toxicity – Inhalation (Category 4)

All chemicals listed.

**USA TSCA**

**SARA TITLE III**

Sec. 302.

40 CFR 355. Hydrogen Peroxide listed.

Sec. 313.

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Sec. 311 and 312.

Acute Health Hazard – Yes

Chronic Health Hazard – No

Fire Hazard – No

Sudden release of pressure hazard – No

Reactive Hazard – No

**US State Right to Know Law**

**Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986:** This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels under which would be subject to the proposition.



MA Right to Know List: Listed.  
 New Jersey Right to Know List: Listed.  
 Pennsylvania Right to Know List: Listed.

**International Inventories**

Canada: All components of this product comply with the inventory requirements administered by the *Domestic Substances List (DSL)*.  
 Canada Regulatory Information: **WHMIS Classification:** The product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

**EU Regulations** European Union (EINECS/ELINCS): All chemicals listed.

**15.2 Chemical Safety Assessment:** No chemical safety assessment has been carried out for mixture by the supplier.

**SECTION 16: OTHER INFORMATION**

Abbreviations and Acronyms

ATE: Acute Toxicity Estimate  
 CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DMEL: Derived Minimal Effect Level  
 DNEL: Derived No Effect Level  
 EUH Statement: CLP-specific Hazard statement  
 PBT: Persistent, Bioaccumulative and Toxic  
 PNEC: Predicted No Effect Concentration  
 RRN: REACH Registration Number  
 vPvB: Very Persistent and Very Bioaccumulative

Procedure Used to Derive the Classification According to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Serious Eye Damage/Eye Irritation (Category 2A) Skin Corrosion/Irritation (Category 2B)	On basis of test data.

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 Replaces: November 7, 2018  
 Prepared By: Evergreen Solutions Corp.

Notice to Reader

**To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.**

**Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**

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<< N/E = Not established N/AP = Not Applicable N/AV = Not Available C.O.C = Cleveland Open Cup >>

