

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

Product Name: **PrevaClean 9015 – NPN #: 80098437**
 Chemical Family: N/Av
 CAS Number: N/Av

1.2 Relevant Identified Uses

Product Intended Uses: Alcohol Based Hand Sanitizer
 For personal hygiene to help prevent the spread of bacteria

1.3 Supplier Details

Name & Address: Evergreen Solutions
 64210, 393 Loop East
 Okotoks, AB T1S 0L1
 SDS Contact: 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: Flammable Liquids (Category 2)
 Eye Damage/Irritation (Category 2A)
 Specific Target Organ Toxicity – Single Exposure, CNS (Category 3)

2.2 Label Elements

Hazard Pictogram(s):



Signal Word: DANGER
 Hazard Statement(s): Highly flammable liquid and vapor.
 Cause serious eye irritation.
 May cause drowsiness or dizziness.

Precautionary Statement(s)

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical, ventilating, lighting, and mixing equipment.
 Use only non-sparking tools.
 Take action to prevent static discharges.
 Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area.
 Wash face and any exposed skin thoroughly after handling.
 Wear protective gloves/eye/face protection.

Response: **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF EYE IRRITATION PERSISTS: Get medical advice/attention.
IN CASE OF FIRE: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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
Isopropyl alcohol	Cas No.: 67-63-0	70
Aqua	Cas No.: 7732-18-5	15 – 30
Glycerol	Cas No.: 56-81-5	1 – 5
Trocopheryl Acetate	Cas No.: 7695-91-2	1.5 – 2.5
Hydrogen Peroxide	Cas No.: 7722-84-1	0.1 – 1

Note: Any concentration shown as a range is due to batch variation.

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. Immediately flush with plenty of water, holding the eyelids apart and occasionally lifting the upper and lower eyelids, for 15 minutes. Call a physician if irritation develops.

Skin Contact: Remove contaminated clothing and shoes, wash before reuse. Wash affected skin with soap and water. See physician if irritation develops.

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. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

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: Contact with eyes may cause irritation or discomfort.
 Skin Contact: No specific data.
 Inhalation: Inhalation of mist/vapors/spray may cause respiratory tract irritation.
 Ingestion: Ingestion may cause irritation.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Physician Notes: Treat symptomatically.
 Specific Treatments: Discontinue use and consult a health care practitioner if irritation and redness develop.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Media: Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂).
 Unsuitable Media: Do not use high volume water jet as an extinguisher.

5.2 Special Hazards from Substance/Mixture

Hazards from substance: Do not allow run-off from firefighting to enter drains or water courses.
 Hazardous Combustion Products:
 Carbon oxides
 formaldehyde
 corrosive vapors
 Nitrogen oxides (NO_x)

5.3 Advice for Firefighters

Special Protective Actions: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
 For safety reasons in case of fire, cans should be stored separately in closed containments.
 Use a water spray to cool fully closed containers.

Special Protective Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Non-emergency Personnel: Use personal protective equipment.
 Ensure adequate ventilation.
 Remove all sources of ignition.
 Evacuate personnel to safe areas.
 Beware of vapours accumulating to form explosive concentrations.
 Vapours can accumulate in low areas.



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 product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and Materials of Containment and Cleanup

Small Spill: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Large Spill: Stop the leak if possible. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Ventilate the area. Block release of the chemical from sewer or storm drains. Observe all personal protection equipment recommendations. Ensure personal protection during removal of spillages. Eliminate all ignition sources if safe to do so. Local authority should be advised if significant spill cannot be contained.

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: Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces, and sources of ignition.
Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating, and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Container may be opened only under exhaust ventilation hood.
Open drum carefully as content may be under pressure.

Dispose of rinse water in accordance with local and national regulations.

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:

No smoking.
 Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.
 Store at room temperature away from open flame.

Incompatibilities:

No specific data.

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	Value Type	Control Parameters	Basis
Isopropanol (67-63-0)	TWA	200 ppm; 492 mg/m ³	CA AB OEL
	STEL	400 ppm; 984 mg/m ³	CA AB OEL
	TWA	200 ppm	CA BC OEL
	STEL	400 ppm	CA BC OEL
	TWAEV	400 ppm; 983 mg/m ³	CA QC OEL
	STEV	500 ppm; 1230 mg/m ³	CA QC OEL

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:
 PNECs:

No DNELs/DMELs available.
 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.

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 fitted safety goggles; also wear a face shield if splashing hazard exists.**

Skin Protection

Protective Handwear: **Plastic or rubber 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: Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all times. 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: Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type: Organic vapor type.

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:	Liquid
Color:	Colorless, Clear
Odor:	Alcohol
Odor Threshold:	N/E
pH Factor:	8 – 9
Melting/Freezing Point:	<-30°C
Boiling Point (°C):	N/Ap
Flash Point:	32.22°C (90°F)
Evaporation Rate:	N/Ap
Flammability:	N/Ap
Explosive Limits:	None
Vapor Pressure:	N/Av
Vapor Density (air = 1):	N/Av
Relative Density:	0.862
Solubility(ies):	N/Av
Partition Coefficient:	N/Av
Auto-ignition Temperature:	N/E
Decomposition Temp.:	N/Av
Viscosity:	N/Ap
Explosive Properties:	N/E
Oxidizing Properties:	N/Av

9.2 Other Information

Solubility in Water:	Complete
Pour Point:	N/Av

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	No dangerous reactions known under conditions of normal use.
10.2 Chemical Stability:	Stable under normal conditions.
10.3 Possibility of Hazardous Reactions:	Vapors may form explosive mixture with air.
10.4 Conditions to Avoid:	Keep away from heat, flame, sparks and other ignition sources.
10.5 Incompatible Materials:	Strong acids Aldehydes Oxidizing agents Rubber Oils Plastics Amines Metals Halogenated compounds Peroxides Bases
10.6 Hazardous Decomposition Product(s):	Carbon oxides Sulphur oxides

SECTION 11: TOXICOLOGICAL INFORMATION
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11.1 Toxicological Effects Information
Acute Toxicity

Oral:	No specific data.
Dermal:	No specific data.
Inhalation:	No specific data.

Irritation/Corrosion

Skin:	Irritating to skin.
Eyes:	Irritating to eyes.

Sensitization

Conclusion/Summary:	No adverse effects are anticipated.
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Mutagenicity

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

Conclusion/Summary:	No carcinogenic components identified.
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Reproductive Toxicity

Conclusion/Summary:	No specific data.
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Teratogenicity

Conclusion/Summary:	No adverse teratogenic effects are anticipated.
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Specific Target Organ Toxicity – Single Exposure

Conclusion/Summary:	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.
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Specific Target Organ Toxicity – Single Exposure

Conclusion/Summary:	Not available.
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Aspiration Hazard

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

Potential Acute Health Effects

Eye Contact:	Causes eye irritation.
Inhalation:	No specific data.
Skin Contact:	Causes skin irritation.
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:** No specific data.
- 12.2 **Persistence & Degradability:** No specific data.
- 12.3 **Bioaccumulative Potential:** No specific data.
- 12.4 **Mobility in Soil:** No specific data.
- 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	1219	1219	1219	1219	1219
14.2	UN Shipping Name	Isopropyl alcohol	Isopropyl alcohol	Isopropyl alcohol	Isopropyl alcohol	Isopropyl alcohol
14.3	Transport Hazard Class(es)	Class 3	Class 3	Class 3	Class 3	Class 3
14.4	Packaging Group	PG II	PG II	PG II	PG II	PG II
14.5	Environmental Hazards	No	No	No	No	No



	Additional Information				Flash Point: 12°C (54°F)
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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:

Flammable Liquids (Category 2)

Eye Damage/Irritation (Category 2A)

Specific Target Organ Toxicity – Single Exposure, CNS (Category 3)

All chemicals listed.

USA TSCA

SARA TITLE III

Sec. 302.

Sec. 313.

40 CFR 372 This substance contains no materials subject to the reporting requirements of SARA (III) Section 313.

Sec. 311 and 312.

40 CFR 370 SDS Requirements. Hazardous Classes: Immediate acute health hazard.

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.

International Inventories

Canada:

All components of this product comply with the inventory requirements administrated 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.

AICS:

On the inventory, or in compliance with the inventory

NZIoC:

On the inventory, or in compliance with the inventory

KECI:

On the inventory, or in compliance with the inventory

PHIL:

On the inventory, or in compliance with the inventory

IECSC:

On the inventory, or in compliance with the inventory

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

ACGIH:	American Conference of Government Industrial Hygienists
AICS:	Australia, Inventory of Chemical Substances
ATE:	Acute Toxicity Estimate
CAS:	Chemical Abstract Service
CNS:	Central Nervous System
CLP:	Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL:	Derived Minimal Effect Level
DNEL:	Derived No Effect Level
DSL:	Canada, Domestic Substances List
EC50:	Effective Concentration 50%
EUH Statement:	CLP-Specific Hazard Statement
IARC:	International Agency for Research On Cancer
KECI:	Korea, Existing Chemical Inventory
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
Flammable Liquids (Category 2)	On basis of test data.
Eye Damage/Irritation (Category 2A)	On basis of test data.
Specific Target Organ Toxicity – Single Exposure, CNS (Category 3)	On basis of test data.

Full Text of Abbreviated H Statement

H227	Highly flammable liquid and vapor.
H319	Cause serious eye irritation.
H335	May cause drowsiness or dizziness.

Date of Issue/Revision: April 2, 2020
 Replaces:
 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.

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

